



**FIMI'S EXCELLENCE, SUSTAINABILITY,
ENVIRONMENT, HEALTH & SAFETY
AND SOCIAL AWARENESS
AWARDS 2017 – 18**

CONTENTS

FIMI Awards 2017-18

1. Background	1
2. List of Applicants	3
3. Shortlisted Mines	6
4. Award Winning Mines.....	8
5. Citations.....	10
6. List of Past Winners	38
7. List of the Jury Members	45

FIMI Award Scheme 2018-19

8. Category of Awards	49
9. Assessment Process.....	54
10. Guidelines and Application Format	55
Section A – General Information and Statutory Compliances	61
Section B – Economic Performance.....	66
Section C – Biodiversity & Sustainability Performance	69
Section D – Environmental Performance	73
Section E – Social Performance.....	78
Section F – Health & Safety Performance.....	81

BACKGROUND

In the present world of globalization, no business can achieve the desired results without ensuring economic, social and environment sustainability. However, unlike other industries that have choice of locating their projects at any geographical location suitable to them, mining industry inevitably has to be where the minerals occur. Therefore, the challenge of following sustainability principles gets significantly magnified and complicated too. This challenge gets further compounded by the fact that most of the mineral bodies are in forest, backward and tribal areas – where economic, social and other infrastructures are conspicuous by their absence. In such settings, mining industry has to take care of many diverse and compelling issues right from conservation of biodiversity, wildlife, environment, etc.

Mining industry now is resolutely marching towards sustainable mining while performing its dual role of meeting the domestic demand of raw materials as well as of increasing its contribution in the international market. It is striving hard to acquire the capability to deliver sustainable and responsible economic growth through R&D; productivity enhancement; improved technology and conservation strategies. The voluntary CSR and community welfare initiatives undertaken by the industry along with the Health & Safety of the stakeholders is well recognized.

In order to motivate and recognize the efforts of mining industry for having addressed these multi-dimensional issues in an exemplary manner, FIMI has instituted FIMI's Awards Scheme. There are ten awards in five categories, viz. awards of Excellence, Sustainability, Environment, Social Awareness and Health & Safety which are given annually through a Jury of experts in sustainable development and associated activities. Each award carries a trophy and a certificate.

LIST OF APPLICANTS FOR FIMI AWARD SCHEME 2017-18

I. EXCELLENCE AWARD – 1 No.

(i) Bala Gulshan Tandon Excellence Award

1. Amalgamated Periyanganalur, Aminabad & Khairulabad Limestone Mine, Dalmia Cement (Bharat) Limited
2. Grasim Cement Limestone Mine, Kotputli Cement works, UltraTech Cement Limited
3. Jajang Iron & Mn Mines, Rungta Mines Limited
4. Tummalapenta Limestone Mines, A.P. Cement Works, UltraTech Cement Limited
5. Vikram Cement Limestone Mine, UltraTech Cement Limited
6. Sukinda Mines (Chromite), IMFA
7. Sindesar Khurd Lead Zinc Mine, Hindustan Zinc Limited
8. Narmada Cement Works, UltraTech Cement Limited
9. Joda East Iron Mine, Tata Steel Limited
10. Mangampet Barytes Mines, A.P.M.D.C. Limited

II. SUSTAINABILITY AWARD – 1 No.

(i) Tata Steel Mining Sustainability Award

1. Jajang Iron & Mn Mines, Rungta Mines Limited
2. Periyathirukonam Limestone Mines, Dalmia Cement (Bharat) Limited
3. Bailadila Iron Ore Mine, (Bacheli Complex), NMDC Limited
4. Singar Limestone Mine, Ambuja Cement Limited
5. Panchpatmali Bauxite Mine, NALCO Limited
6. Mainpat Bauxite Mine, BALCO Limited
7. Noamundi Iron Mine, Tata Steel Limited

III. ENVIRONMENT AWARDS – 4 Nos.

(i) Subh Karan Sarawagi Environment Award

(ii) Abheraj Baldota Environment Award

(iii) Misrilall Jain Environment Award

(iv) Gem Granites Environment Award

1. Sanindpur Iron & Bx. Mines, Rungta Mines Limited
2. Kallakkudi Limestone Mines, Dalmia Cement (Bharat) Limited
3. Periyathirukonam Limestone Mines, Dalmia Cement (Bharat) Limited

4. Sukinda Mines (Chromite), IMFA
5. Mahagiri Mines (Chromite), IMFA
6. KJST Iron, Mn & Bx. Mine, M/s. Prabodh Mohanty
7. Sindesar Khurd Lead Zinc Mine, Hindustan Zinc Limited
8. Naokari Cement Limited, UltraTech Cement Limited
9. Vikram Cement Limestone Mine, UltraTech Cement Limited
10. Kayad Lead - Zinc Mines, Hindustan Zinc Limited
11. Century Cement Limestone Mine, Century Textiles and Industries Limited
12. Jamul Cement Works Limestone Mine, ACC Limited
13. Rough Stone Quarry (Unit I), Thriveni Earthmovers Pvt. Limited
14. Unchabali Iron & Mn Mines, Smt. Indrani Patanik
15. Pakri Barwadih Coal Mining Project, NTPC Limited

IV. SOCIAL AWARENESS AWARDS – 2 Nos.

(i) Sita Ram Rungta Social Awareness Award

(ii) NMDC Social Awareness Award

1. Jajang Iron & Mn Mines, Rungta Mines Limited
2. Sanindpur Iron & Bx. Mines, Rungta Mines Limited
3. Amalgamated Periyagalur, Aminabad & Khairulabad Limestone Mine, Dalmia Cement (Bharat) Limited
4. Maliakhera Limestone Mine, J.K. Cement Works
5. Mangrol Limestone Mine, J.K. Cement Works
6. Rawan Limestone Mine, Ambuja Cement Limited
7. Parsa East and Kanta Basan Opencast Mine, Adani Enterprises Limited (RVUNL)
8. Sindesar Khurd Lead Zinc Mine, Hindustan Zinc Limited
9. John Iron Ore Mines, R. Praveen Chandra
10. Aditya Limestone Mine, UltraTech Cement Limited
11. Mangampet Barytes Mines, A.P.M.D.C. Limited

V. HEALTH & SAFETY AWARDS – 2 Nos.

(i) Rio Tinto Health & Safety Award

(ii) Hindustan Zinc Health & Safety Award

1. Kovandakurichi Limestone Mines, Dalmia Cement (Bharat) Limited
2. Kallakkudi Limestone Mines, Dalmia Cement (Bharat) Limited
3. Rawan Limestone Mine, Ambuja Cement Limited
4. Kovaya Limestone Mine, UltraTech Cement Limited

5. Bhelatand Amalgamated Colliery, Jharia Division, Tata Steel Limited
 6. Naokari Limestone Mine, Awarpur Cement Works, UltraTech Cement Limited
 7. Samri Bauxite Mine, Hindalco Industries Limited
 8. RAS II Limestone Mine, Ambuja Cement Limited
 9. John Iron Ore Mines. R. Praveen Chandra
 10. Jamul Cement Works Limestone Mine, ACC Limited
 11. Bodai Daldali Bauxite Mine, BALCO Limited
 12. Mangampet Barytes Mines, A.P.M.D.C. Limited
 13. Grasim Cement Limestone Mine, Kotputli Cement Works, UltraTech Cement Limited
 14. Gare Palma IV/4 Coal Mine, Hindalco Industries Limited
 15. Gare Palma IV/5 Coal Mine, Hindalco Industries Limited
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LIST OF SHORTLISTED MINES FOR FIMI AWARD SCHEME 2017-18

I. EXCELLENCE AWARD– 1 No.

(i) Bala Gulshan Tandon Excellence Award

- 1) Sindesar Khurd Mine, Hindustan Zinc Limited
- 2) Joda East Iron Mine , Tata Steel Limited
- 3) Tummalapenta Limestone Mine, UltraTech Cement Limited

II. SUSTAINABILITY AWARD – 1 No.

(i) Tata Steel Mining Sustainability Award

- 1) Bailadila Iron Ore Mine, Bachel complex, NMDC Limited
- 2) Jajang Iron & Mn Mines, Rungta Mines Limited

III. ENVIRONMENT AWARDS – 4 Nos.

(i) Subh Karan Sarawagi Environment Award

(ii) Abheraj Baldota Environment Award

(iii) Misrilall Jain Environment Award

(iv) Gem Granites Environment Award

- 1) Jamul Cement Works Limestone Mine, ACC Limited
- 2) Vikram Cement Limestone Mine, UltraTech Cement Limited
- 3) Sanindpur Iron & Bx. Mines , Rungta Sons (P) Limited
- 4) Naokari Limestone Mines, UltraTech Cement Limited
- 5) Unchabali Iron & Mn Mines, Smt. Indrani Patanik
- 6) Century Cement Lst. Mine, Century Textiles and Industries Limited
- 7) Kallakkudi Limestone Mines, Dalmia Cement (Bharat) Limited
- 8) Sindesar Khurd Lead - Zinc Mine, Hindustan Zinc Limited
- 9) Kayad Lead - Zinc Mines, Hindustan Zinc Limited
- 10) Rough Stone Quarry (Unit I), Thriveni Earthmovers Private Limited

IV. SOCIAL AWARENESS AWARDS – 2 Nos.

(i) Sita Ram Rungta Social Awareness Award

(ii) NMDC Social Awareness Award

- 1) Rawan Limestone Mine, Ambuja Cement Limited
- 2) Parsa East and Kanta Basan Opencast Mine, Adani Enterprises Limited (RVUNL)
- 3) Sanindpur Iron & Bx. Mines, Rungta Sons (P) Limited
- 4) Jajang Iron & Mn Mines, Rungta Mines Limited

V. HEALTH & SAFETY AWARDS – 2 Nos.

(i) Rio Tinto Health & Safety Award

- 1) Jamul Cement Works Limestone Mine, ACC Limited
- 2) Naokari Limestone Mines, UltraTech Cement Limited
- 3) Mangampet Barytes Mine, A.P.M.D.C. Limited

(ii) Hindustan Zinc Health & Safety Award

- 1) Bhelatand Amalgamated Colliery, Tata Steel Limited
 - 2) Gare Palma IV/4 Coal Mine, Hindalco Industries Limited
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AWARD WINNING MINES IN FIMI AWARD SCHEME 2017-18

FIMI EXCELLENCE AWARD

Bala Gulshan Tandon Excellence Award	Sindesar Khurd Lead-Zinc Mine Hindustan Zinc Limited
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FIMI SUSTAINABILITY AWARD

Tata Steel Mining Sustainability Award	Bailadila Iron Ore Mine, Bachel Complex NMDC Limited
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FIMI ENVIRONMENT AWARDS

Subh Karan Sarawagi Environment Award	Kallakkudi Limestone Mines Dalmia Cement (Bharat) Limited
Abheraj Baldota Environment Award	Vikram Cement Limestone Mine - II UltraTech Cement Limited
Misrilall Jain Environment Award	Unchabali Iron & Mn Mines Smt. Indrani Patnaik
Gem Granites Environment Award	Century Cement Limestone Mine Century Textiles & Industries Limited
Jury Special Environment Award	Rough Stone Quarry (Unit - I) Thriveni Earthmovers Private Limited

FIMI SOCIAL AWARENESS AWARDS

Sita Ram Rungta Social Awareness Award	Parsa East & Kanta Basan Opencast Coal Mine Adani Enterprises Limited (RVUNL)
NMDC Social Awareness Award	Jajang Iron & Mn Mines Rungta Mines Limited

FIMI HEALTH & SAFETY AWARDS

**Rio Tinto Health &
Safety Award**

**Jamul Cement Works Limestone Mine
ACC Limited**

**Hindustan Zinc Health &
Safety Award**

**Bhelatand Amalgamated Colliery
Tata Steel Limited**

**Jury Special Health &
Safety Award**

**Mangampet Barytes Mine
APMDC Limited**

CITATIONS

BALA GULSHAN TANDON EXCELLENCE AWARD

SINDESAR KHURD LEAD ZINC MINE – HINDUSTAN ZINC LIMITED

Sindesar Khurd Mine of Hindustan Zinc Limited is located in Rajsamand district of Rajasthan covering an area of 199.84 Ha. It is a world-class underground mine with state-of-the-art infrastructure and best-in-class mechanization. It has a resource base of 126 million MT with zinc-lead reserve grade of 6.14% as on 31st March, 2018. The mine started operations in 2006 and has seen several phases of expansions from 0.3 million MT to its current capacity of 4.5 million MT. In the year 2017, the mine has produced 4.5 million MT of ore and 250 KT of metal. The mine is certified in ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007, SA 8000:2008. It is recognized as 5 Star Rated mine by Ministry of Mines, Government of India.

Unique Features and Innovative processes adopted by the mine:

- The mine has successfully completed pilot project digitalization in 'SKA - 6 section' for the conversion to Wi-Fi zone. The mine has a live tracking system for equipment in Wi-Fi enabled areas. Live monitoring of the truck health data is done through OPTIMINE system. Paper-less reporting round the shift with digital DSR implementation, automatic allocation of operators. The mine has established control room enhancing the communication during shift to improve upon MTTR. Latest Mine designing and planning softwares like Data mine Studio 3 and 5D Planner, EPS, Ventsim, Flac-3D and Sirovision are used. Tele-Remote mucking is done through Loaders.
- The mine has constructed paste-filling plant of 3.0 million MT capacity for Backfilling of Underground voids.
- Workshop for "HEMM maintenance" in underground.
- Faster exploration drilling by introducing highly productive MCR equipped with advanced wire-line technology.
- Use of electronic detonators in blasting to reduce blast vibration and increasing efficiency.
- Cavity monitoring system for better reconciliation & dilution control.
- Simulator for imparting training on Drill Jumbo, LHD and Mine Trucks – An important tool in safety & productivity enhancement.

- Meri Soch: a platform where employees can share their ideas and suggestions to improve safety, productivity, quality, cost and delivery.
- Regular underground water sprinkling with addition of special chemicals i.e., dusttron to increase moisture and binding capacity of dust to minimize fugitive emission.
- The mine has deepened 9 village ponds to increase the ground water recharge.
- HZL's signature project "Khushi" working for child development in rural areas. Project Khushi is being implemented in partnership with Jatan Foundation in 504 Anganwadi centers in Rajsamand district covering more than 10,600 children under 6 years age including Pre-School and other interventions related to over all development of child.
- Transforming old Anganwadi centres into "Nand-Ghar" to provide better facilities to rural children.
- Women empowerment through "Sakhi" programme, enabling women to become self dependent. A total no. of 222 SHGs have been formed till May 2018 in joint collaboration with Manjari Foundation and Saheli Samiti under Sakhi Project. Total 2810 women of 27 villages are covered in these SHGs.
- "Shiksha- Sambal" Program encouraging the motto of "Education for all".
- "Yuvantaran"- Skill development program for Jumbo operators.
- A total of 15 animal husbandry camps were organized by BISL (NGO) in the nearby villages, i.e. Malikheda, Raghunathpura, Rajpurakheda, Amarpura, Serverdiyakhedi, Sopura, Latiyakhedi, Laxmipura , Champakhedi, Nayadariba, Sunariyakheda, Makhanpuriya, Katiyakheda, Pipawas & Udalpara, which benefited 4644 animals & 562 families in the month of April 2018.
- Organizing the Medical camps in rural areas for free medical check-up and medication to villagers including Ayurveda-Camp & Naturopathy treatment.
- Samadhan project is being implemented in partnership with BISLD (NGO) at HZL for strengthening of Local farmers on vermicomposting etc.

Keeping in view the mine's extraordinary overall performance and commitment towards sustainable development, it has been awarded with **Bala Gulshan Tandon Excellence Award for the year 2017-18.**



Centralised Mine control room



Tele-remote operation of Loader



Simulator for Jumbo Drilling training



"Nand-Ghar" Anganwadi project



Sakhi women empowerment project



Khushi Child Development programme



Sunariya Khera Pond



Before deepening & after Deepening



Plantation inside & Outside Mine area



Autonomous machines Loading & Hauling by tele- remote operation



CCTV monitoring of pouring point in U/G from surface control room

TATA STEEL MINING SUSTAINABILITY AWARD

BAILADILA IRON ORE MINE, BACHELI COMPLEX– NMDC LIMITED

Bailadila Iron Ore Mine, Bachel Complex of NMDC Ltd. is flagship project with annual production capacity of 18.8 MTPA and mining lease area more than 1000 hectares. Bachel Complex has two highly mechanized opencast mining lease i.e. Deposit-5 and Deposit 10 & 11A, both of them are 5 star rated mines. The project has implemented Integrated Management Systems and accredited with ISO 9001 (Quality Management Systems), ISO 14001 (Environment Management Systems), OHSAS 18001 (Occupational Health & Safety Management Systems) and SA 8000 (Social Accountability) certificates. NMDC Bachel Complex has accepted & adopted 10 commandments of sustainability and implemented sustainable mining practices with state of the art latest technology.

NMDC Bachel Complex is operating in Bastar region of Chhattisgarh state, is one of the remotest locations of the country occupied with dense forests and profoundly affected by local militancy known as Naxalism. However, the project has adopted innovative and highly effective Biodiversity & Environmental conservation measures, CSR techniques affecting the most needy population and advanced Health & Safety measures at workplace that have transformed the region and the society.

Unique Features and Innovative processes adopted by the mine:

- Biodiversity conservation through implementation of comprehensive and approved Wild life and Biodiversity conservation plan for Rs. 14.47 crores by involvement of stakeholders like CG Forest Department.
- The mine has built biodiversity conservation park on hillock inside deposit-5 mine. Enhanced the beautification of Dr. Ambedkar Park, Bachel.
- Intensive afforestation both inside and outside mining lease by planting more than 12 lakh plants and contributing Rs. 25 crores in Harihar Chhattisgarh programme.
- Biodiversity and forest protection from fire through CISF Fire wing and three nos. of project fire tenders.
- Agricultural reform through organic farming technique popularly known as "Mochobadi" that has transformed lives of local farmers.

- Environmental protection & conservation through innovative practice like implementation of 'Ridge to Valley' concept using advanced technology. Advanced Mine Planning software which is used for accurate planning including series of Gabion check dams, Buttress wall, Contour trenches, and Geo coir matting planned in phase wise manner, accurate impact for environmental protection is estimated.
- Conservation oriented Mine Planning by the use of advanced technology softwares like SURPAC, WHITTLE, MINE SCHEDULEING.
- Ore transportation through fully Closed Conveyors to prevent dust Generation in the Environment.
- For Waste management, SBR Technology based STP of 2.0 MLD Capacity is being installed at the mine premises.
- Auto Controlled Dust Suppression Systems is installed at Transfer Points/ Scalping Screens at plant.
- NMDC Bachelu Project is contributing about Rs. 170 crores per annum for implementation of CSR schemes, such as-
 - ▲ Development of State of the Art Schools like Sakhsam-I & II for children (differently abled), Kanya Siksha Parisar for Naxal affected children and operating technical educational institutions like Polytechnic and ITI in Dantewada. Contributed about Rs. 60 crores for establishment of Medical college at Jagdalpur.
 - ▲ 'Balika Shiksha Yojna' for 40 girls from poor tribal families of Bastar Region, every year for pursuing nursing and midwifery courses at Apollo Nursing Institution, Hyderabad.
 - ▲ Free Medical Treatment for tribals in 100 bedded Hospital project and providing free medical services on regular basis in remote villages.
 - ▲ Supply of clean drinking water to the villages by setting up solar dual pumps and grouped water supply schemes.
 - ▲ Swachhha Bharat and livelihood enhancement schemes for tribal people
 - ▲ Extensive infrastructural development through CSR including Solar electrification of Bastar region.
- Implementation of Safety Management System and safety related training through advanced software like dumper simulator and e-learning module

Keeping in view mine's outstanding performance in biodiversity conservation and sustainability, it has been awarded with **Tata Steel Mining Sustainability Award for the year 2017-18.**



Biodiversity Conservation Park



Closed conveyers to prevent dust generation



Dust Suppression



Extensive Plantation inside the project side



SBR Technology Based STP of 2MLD Capacity



Rural Health Services (Doctor's Village Trips) - Free Health Check-Up & Dispensing Medicines In Nearby Villages



Apollo Hospital with advanced facilities at the mine



Agricultural reform through organic Farming popularly known as "Mochobadi"



Activities by differently abled children under project Saksham



LakshyaYojna : Residential Coaching For Educating Tribal And Local Youth for Career Building



Market Complex at Bachel



Educating Kids of Employees / Contract Labourers/Local People through Smart Classes at Shikhar Bal Vidya Mandir

SUBH KARAN SARAWAGI ENVIRONMENT AWARD

KALLAKUDI LIMESTONE MINES – DALMIA CEMENT (BHARAT) LIMITED

Kallakudi Limestone Mine, a captive mine of Dalmia Cement (B) Ltd is located at Trichy District, State Tamilnadu. It is an Opencast Mechanized Mine with an operating capacity of 1.2 MTPA of limestone over an extent of 111.985 hectares. The mine started operation from 1939 before pre-independence era. The Mine is supplying limestone to three Kilns located in Dalmiapuram and Ariyalur Plants. The Mine has set up several bench marks in various fields of Mining viz Productivity, Environment improvement, Quality and Profitability etc.

Unique Features and Innovative processes adopted by the mine:

- Eco-Friendly Non-Conventional method of mining operations is adopted by deploying mega rock breakers. The breakers deployed are Vibro- Silencer type. Operator's cabin are provided with Viscous pad to reduce the vibration of the machine at the operator's cabin.
- Some of the critical spares in the rock breaker such as lower bush, retainer bar is recycled & re-used which has helped in reducing the inventories and recurring cost savings for the company.
- Green belt has been developed in and around the Mine site. Till date, about 32000 nos of saplings have been planted.
- The existing mine pit acts as rain water harvesting pit. The collected rain water is utilized for plant operations which meets about 40% of plant requirement.
- A portion of Mined out area is designed and developed into boat house which has a water fall and a rocky island.
- A Nakshatra garden with medicinal Plants is also developed adjoining the boat house area. Sculptures of birds and animals made with scrap materials add more beauty. A walking track is also provided around the boat house. Flora and Fauna developed in the adjoining area adds more liveliness and creates a good ambience in the boat house.
- The Mine Management not only takes care of the mine environment but also takes care of the surrounding environment through CSR activities like plantation, rainwater harvesting, check dam, maintaining garden and historical monuments.

For the environment-friendly mining practices and efforts towards environment protection, the mine has been awarded with the **Subh Karan Sarawagi Environment Award for the year 2017-18.**



Mined out area developed into a Boat House



Rock- breaker



Flora & Fauna maintained at Mines



Nakshatra Garden



Environment Awareness through Street Play in Villages surrounding Mines



Tree saplings planted at Melarasur watershed village

ABHERAJ BALDOTA ENVIRONMENT AWARD

VIKRAM CEMENT LIMESTONE MINE II- ULTRATECH CEMENT LIMITED

Vikram Cement Limestone Mine-II is a captive limestone mine of Vikram Cement Works, a unit of UltraTech Cement Limited situated in village Khor, Tehsil Jawad, District Neemuch, Madhya Pradesh with an area covering of 342.612 Ha. It is a fully mechanised open cast mine with production capacity of 5.6 MTPA and it is certified with ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007, ISO 50001:2011, SA 8000.

Unique Features and Innovative processes adopted by the mine:

- Vikram Cement Limestone Mine-II has taken several initiatives to harvest rainwater in the mine pit and constructed check dams to recharge ground water in the core and buffer zone of the mine. It has developed a storage capacity of around 54 lac cum.
- It has taken unique initiative to control dust in the conveyors by installing curved conveyor for a distance of 3 km. It has also established in-pit crushing system to avoid long transportation by dumpers which in turn minimise CO2 emission. Dust generated is being suppressed at the source by wet drilling, mist spray at the crusher hopper and belt conveyor transfer points. Drill machine is also equipped with dust collection system to eliminate dust while drilling.
- It has developed siltation tank to prevent wash out of silt from overburden dumps to nearby agriculture field of villagers.
- No secondary blasting is carried out at Vikram Cement Limestone Mine for breaking of boulders. Secondary rock breaker is used.
- Vikram Cement Limestone Mine has in pit crushing to minimise CO2 emission.
- Vikram Cement Limestone Mine has developed beautiful green belt area, at reclaimed area of mines, plant & colony.
- A bio-diversity park is developed at Vikram Cement Limestone Mine to restore the biodiversity of site.
- Water used in washing of HEMMs is completely recycled & reused.
- Ground vibration monitoring instrument & video camera is used for blast recording, Mining machineries are provided with modern safety features like auto seat belt reminder, interlocked seat belt & ignition key, AVA, rear view camera, proximity sensor alarm, operator fatigue monitoring system in dumpers and Automatic Fire Detection and Suppression System (AFDSS) in all HEMMs.

- The hazardous waste is stored in licensed premises and disposed through authorised recycler. The Central Lubrication System is being installed in all HEMMs.

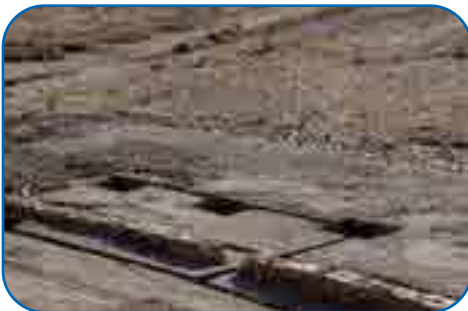
For the mine's excellent efforts in environment protection and eco-friendly mining practices, the mine has been awarded with **Abheraj Baldota Environment Award for the year 2017-18.**



Systematic Backfilling & Reclamation



Green Belt development & Water Storage



Silting Tank to prevent Silt wash out



Recycled Water used for HEMM Washing



Curved Belt Conveyor Transportation without Transfer point.



Biodiversity Park

GEM GRANITES ENVIRONMENT AWARD
CENTURY CEMENT LIMESTONE MINE – CENTURY TEXTILES & INDUSTRIES LIMITED

Century Cement Limestone Mines, Baikunth is a captive Mine of Century Cement Plant, a cement manufacturing unit of Century Textiles & Industries Ltd. (B.K. Birla Group of Companies). It is situated at Raipur District of Chhattisgarh State. Century Cement Limestone Mine is fully mechanised opencast mine with production capacity of 18 Lakh tonne per annum and it is certified by ISO 9001: 2015 & ISO 14001:2015.

Unique Features and Innovative processes adopted by the mine:

- **Afforestation:** More than 5 Lakh trees have been planted so far within and outside the mining lease area which was initially a barren land having no tree. Along with this excellent post plantation care has been adopted such as fencing, watering and manuring, de- weeding, soil changing, replacement of plants etc.
- **Reclamation & Rehabilitation:** One part of the active mining pit is systematically being backfilled. At present, about 9 ha area has been reclaimed by backfilling, out of which about 4.5 ha. area has been rehabilitated with dense afforestation. An old abandoned mine pit has been converted into a beautiful water reservoir of 200 Million Gallon Capacity and surrounding area has been developed into gardens and beautiful picnic spot.
- **Water Management:** The requirement of water for Mines, Cement Plant , Thermal Power Plant, Residential Colony and also to nearby villages are fulfilled by rain water harvesting systems installed at mines. Ground Water Recharge Pit has been constructed within ML area for the recharge of ground water.
- **Pollution control:** Rain gun is used at loading place to control the dust generation during loading operation. Entire length of permanent haul road covering about 2200 m. length is fitted with water sprinklers to prevent dust generation during mineral transportation.
- **Other Good Practices:** Two Solar Power Plants have been established one at mines of capacity 102 KWH and second at colony of capacity 600 KWH. Drip Irrigation System has been adopted for water conservation.

For these wholesome practices implemented by the mines in environmental mitigation measures, the mine has been awarded with the **Gem Granites Environment Award for the year 2017-18.**



Plantation in Barren Land



Deweeding in post plantation care



Old mined out pit converted into a beautiful lake and picnic spot



Nursery and Gardens near Rehabilitated Pit



Ground water recharge ponds near mines



Solar Power Plant installed at mines

MISRILALL JAIN ENVIRONMENT AWARD

UNCHABALI IRON & MANGANESE MINES – SMT. INDRANI PATNAIK

Unchabali Iron & Manganese Mines of Smt. Indrani Patnaik is spread over an area of 106.1127 Ha and falls under the jurisdiction of Unchabali and Balda villages under Barbil Tehsil of Keonjhar District, Odisha. It is a fully mechanised open cast mine with iron ore production capacity of 4.0 Million TPA along with 2.0 Million TPA (2 x 185 TPH) Iron Ore Beneficiation Plant. The mine is certified with ISO 9001:2015 (Quality Management System); ISO 14001:2015 (Environment Management System); BS OHSAS 18001 (Occupational Health and Safety Assessment Series) certifications.

Unique Features and Innovative processes adopted by the mine:

- State-of-the-art technology Zero Discharge Based Iron Ore Beneficiation Plant with drum scrubber, hydro-cyclone, filter press etc. are used for better conservation of mineral ores and environment friendly operation.
- The mine is using wide area Mist guns for dust suppression at ore crushing, Screening Units and stock pile areas.
- All drilling machines are equipped with auto dust extraction system along with wet drilling arrangements. Hydraulic water sprinkling system by 35 KL water tanker along and auto-fixed type sprinkling system along the haul roads.
- Regular maintenance of haul roads by using grader to minimize the fugitive dust during vehicular emission along with keeping the roads without ruts and pot holes.
- Rain water harvesting pond (Capacity 3,60,000 cum) has been constructed inside the lease area for collection of rain water and ground water recharge.
- STP and ETP are operational with zero discharge and the treated, discharged water is being used entirely for plantation, nursery development and gardening purposes.
- Adjacent water bodies are well protected with provision of gabion box wall and banks are planted with fruit bearing saplings
- The dumps are properly terraced, retaining wall followed by garland drains connecting to the settling pits have been made all along the toe of the dumps to prevent soil erosion.
- Waste dumps are being stabilised with application of coir geo-textiles, plantation and also vertivers on dump slopes.
- Subgrade dumps are being stabilised with application of geotextiles followed by grass seedlings.

- Solar power photo voltaic fencing has been installed around the mines working pits towards protection of wild animals.

Unchabali iron & manganese mine has exhibited outstanding environment friendly and welfare driven initiatives towards sustainable mining practices.

For its excellent efforts towards environment protection, the mine has been awarded with **Misirilall Jain Environment Award for the year 2017-18.**



Rain Water Harvesting Structure



Sewage Treatment Plant



Dump Stabilization with Coir Mat, Vertiver and Grass Seed Applications with proper drainage System



Plantation Activities



Use of Solar Energy in Mines

JURY SPECIAL ENVIRONMENT AWARD

ROUGH STONE QUARRY (UNIT-I) – THRIVENI EARTHMOVERS PRIVATE LTD.

Rough Stone Quarry (unit-1) of Thriveni Earthmovers Pvt. Ltd. is spread over an area of 4.40 Ha and falls under the jurisdiction of Kamandoddhi village under Hosur Taluk of Krishnagiri District, Odisha. It is a mechanised open cast mine with production capacity of 870604 MTPA. The mine is certified with ISO 9001:2015 (Quality Management System); ISO 14001:2015 (Environment Management System); BS OHSAS 18001 (Occupational Health and Safety Assessment Series) certifications.

Unique Features and Innovative processes adopted by the mine:

- Systematic, scientific and sustainable mine planning with detailed exploration and state-of-the-art mine planning software are used in the mine. It has a 5 stage process Manufacturing Sand Plant.
- All along the mine boundary are well covered by cladding (GI Sheets) and plant saplings for prevention of the dust & noise pollution.
- All drilling machines are equipped with auto dust extraction system along with wet drilling arrangements.
- Hydraulic water sprinkling system by 12 KL water tanker along and auto-fixed type sprinkling system along the haul roads.
- The mine has a provision of proper garland drains to channelize the mines run off water to mines pit. It has Settling Pond of capacity 27225 cum. 70 % (22176 cum out of 31680 cum) of mines run off water is being channelized to the mines pit.
- Rain water harvesting pond has been constructed inside the lease area for collection of rain water and ground water recharge. 2386 Cum quantity of rainwater recharges the ground water annually. 3.6 Lakh Cum quantity of ground water recharge by means of Settling ponds, Check weirs, Mines pit etc.
- Manufacturing Sand plant along with Crusher and Screen Plants are well equipped with dry fog and dust extraction system with state of the art technologies.
- Waste dumps are being stabilised with application of coir geo-textiles, plantation on dump slopes etc.

Rough Stone Quarry (Unit-I) of Thriveni Earthmovers Pvt. Ltd. is involved in expressive environmental friendly and welfare driven initiatives that positively add to

the human development index and sustainability. Creation of Awareness with Massive Plantation Program Use of Solar Energy in Mining Operations Manufacturing Plant with Dust Extraction System.

For adopting eco-friendly mining practices and efforts towards environment protection, the mine has been awarded with **Jury Special Environment Award for the year 2017-18.**



Auto Fixed Water Sprinkling System



Manufacturing Plant with Dust Extraction System



Rain Water Harvesting cum Recharge Structures



Reuse of STP treated Water in Fountain



Use of Solar Energy in Mining Operations



Creation of Awareness with Massive Plantation Program

SITA RAM RUNGTA SOCIAL AWARENESS AWARD

PARSA EAST & KANTA BASAN OPENCAST COAL MINE– ADANI ENTERPRISES LIMITED (RVUNL)

Parsa East & Kanta Basan Open Cast Coal Mine Project is located in northern fringe of Hasdeo Arand Coalfield of Surguja District, Chhattisgarh. The Mine has a peak production capacity of 15 MTPA. Adani Enterprises Limited (AEL) is working as Mine Developer & Operator (MDO) for the mine owned by Rajasthan Rajya Vidyut Utpadan Nigam Limited (RVUNL).

Mine has played significant role in betterment of quality of life of surrounding communities through its Corporate Social Responsibility (CSR) programmes designed and customized after thorough need based assessment of the villages located in close proximity to the project area.

Unique Features and Innovative processes adopted by the mine:

- **Sustainable Livelihood Development** through Project Annapurna and Project Vasundhra for agricultural development with a goal to raise the income level of the farmers whereas through Project Unnayan, the rural women get organized in Self-Help-Groups and start micro income generating activities such as Clothe stitching, Papad making, White Phenyl making and Mushroom cultivation etc.
- **Establishment state of the art of Kaushal Vikas Kendra** for skill development of local youths for making them employable through imparting training in various skill sets such as Sewing Machine Operator, Hospitality, Electrician, Fitter, Welder and Mining Machinist and at the same time ensuring employment opportunity to the skilled youths through their employment in various industries all across the country.
- **Establishment of Adani Vidya Mandir** equipped with world class teaching and learning facilities for imparting quality education to the rural children from class LKG to Class VIII.
- **Project Digital Gram**-Project Digital Gram inaugurated by Ms. Nupur Rashi Panna, I.A.S. SDM-Udaipur in Dec 2016 at Salhi Village. 229 rural youth enrolled in the program to make them computer literate; providing training on cashless transactions to villagers.
- **Establishment of Adani Surguja Football Academy** – Through this academy, the rural tribal children and youths are groomed to be the professional football players. Under 12 to 17 years category more than 120 youths underwent football coaching and a few players played international DANA CUP, took part in International Football Tournaments in Afghanistan and other Asian countries.

- **Health care facilities-** Health care solution named as Provided medical services to more than 25,000 village patients at their door step. A separate “Sanjiwani – W” program spreads awareness among rural women about various health issues.

Keeping in view the exemplary CSR initiatives for social upliftment of local community, the mine has been awarded with **Sita Ram Rungta Social Awareness Award for the year 2017 - 18.**



Mobile Medical services



Computer Literacy Centres under Project Digital Gram



Skill development training at Kaushal Vikas Kendra-Centre



Quality education to rural children



Clean Drinking water facility for villagers

NMDC SOCIAL AWARENESS AWARD

JAJANG IRON & MANGANESE MINES – RUNGTA MINES LIMITED

Jajang Iron & Manganese Mines of Rungta Mines Ltd. is a flagship mine of S.R. Rungta group and has been exploring Iron ore since 1957. It is surrounded by four Gram Panchayats namely Jajang, Jalahari, Jurudi & Palsa having 17 villages where the CSR team of Jajang Iron & Manganese Mines has been consistently striving to uplift the villagers by implementing various initiatives i.e. Health, Education, Cultivation, Sanitation, drinking water, infrastructure development etc. A considerable change in the socio-economic culture have been witnessed and apprehended for the beneficiaries who dwell in these remote villages.

Unique Features and Innovative processes adopted by the mine:

- **Swachhata Mission & Open Defecation Free (ODF) programme** :The concept of cleanliness & avoiding health hazards is being communicated to all the villagers and through “Shramadan”, villages cleaned in reality and oath taken by villagers to keep their area clean & tidy as a routine job. Moreover 220 nos. of toilets have been built at Bandhuabeda & Jajang villages during 2016-17 & 2017-18 with an expenditure amounting to Rs. 66 lakhs to stop open defecation and villagers were made aware of their good health & sanitation habit.
- **Developing cultivation culture**:Lift Irrigation and Minor irrigation projects completed with an expenditure of Rs. 68 lakhs at Bandhuabeda & Jajang villages and handed over to the Village Panchayats to pursue cultivation through irrigating properly their lands so as to raise their economic standard.
- **Renewable Energy**: Sarukudor & Jamirta villages have been fitted with solar operated street lights for illumination with a cost of 9.6 lakhs. To cater the required consumption of drinking water, over Head Water Tanks have been constructed at Sarukudor with solar pumps in the deep bore well costing Rs. 5.25 lakhs during 2016-17.
- **Education**: Education which is the means to modify behavior and culture has been given more emphasis for the village mass. Construction of school buildings, boundary wall, teachers quarters, hostel, toilets and drinking water facilities etc. in the surrounding villages have been completed with an expenditure of Rs. 3.6 crores during 2014-17 which has given rise to more consciousness and promotes a systematic culture of education.
- **Dengue Prevention**: Health awareness & promotion of good health among villagers are the prime concern for which prevention of diseases like Dengue are communicated to village dwellers with the distribution of mosquito nets, drainage cleaning, spraying of pesticides and fogging activities in surrounding villages with a cost of Rs. 5.15 lakhs during 2015-2017.

- **Drinking water:** Unclean water causes numerous and varied diseases. Hence safe and clean drinking water provisions have been provided in all the surrounding villages with Over Head Tanks fitted with submersible pump and water taps throughout the village streets with an expenditure of Rs. 17.55 lakhs.

Keeping in view the exemplary CSR initiatives for social upliftment of local community, the mine has been awarded with **NMDC Social Awareness Award for the year 2017 - 18.**



Toilet Construction



Minor Irrigation



Solar Pump & Light



Education



Dengue Prevention



Drinking Water



Lift Irrigation

RIO TINTO HEALTH & SAFETY AWARD

JAMUL CEMENT WORKS LIMESTONE MINE – ACC LIMITED

Jamul Cement Works Limestone Mine of ACC Limited is situated at Jamul, Dhaur & Kurud villages of Durg district of Chhattisgarh. At present, JCW Limestone Mine is producing about 1.8 MTPA and is located at the distance of 5 km from nearest railway station Bhilai Power House. The Mine is worked by mechanised system of opencast mining method.

The mines working culture is dedicated to Health & Safety aspects and considered as one of the mandatory conditions of doing employment at ACC Ltd. Jamul Mines is working continuously to bring awareness about Health & safety aspects, imparting training on behaviour based improvement, Yoga to bring positive safe approach while working and inculcating safe and innovative practices to work more safely so that the entire society & future generation will have a safe environment.

Unique Features and Innovative processes adopted by the mine:

- Personal protective equipment is regular practice in the mine, used on all jobs wherever required in the mines.
- Under the safety management system regular training on emergency responses and mockdrill for fire fighting is being conducted.
- Toolbox talk is done everyday before allocation of job and pit safety meeting is a regular H&S culture in the mine.
- The mine keeps a full record of Safety Health status through monitoring by carrying out periodic safety audit and risk assessment. Consequently takes remedial measures as required.
- Performance of safety is taken into account while considering career advancement of all employees.
- Regular class room training for all the operators is given by OEM expert trainer with assessment.
- Tire protection chain is being used in the Pay loader as a safety culture.
- Regular alcohol testing is being conducted at the entry of the mine premises.

Keeping in view the mine's outstanding efforts in the area of Health & Safety performance, the mine has been awarded with the **Rio Tinto Health & Safety Award for the year 2017-2018.**



Regular pit safety Meeting



Regular Mock Drill for Fire fighting



Regular five minutes Yoga practice for the operators



Tyre protection chain in Payloader



First aid assembly point at the crusher



Regular alcohol testing

HINDUSTAN ZINC HEALTH & SAFETY AWARD

BHELATAND AMALGAMATED COLLIERY – TATA STEEL LIMITED

Bhelatand Amalgamated Colliery is more than 100 years old underground coal mine in Jharia Division of Tata Steel Limited, spread over an area of 529.68 hectares and with an operational capacity of 0.34 MTPA. Despite of working at a depth of more than 470 m, the colliery has always been able to meet the excellence in all fields with special attention towards safety and health of its employees. The Colliery has adopted modern technology to enhance the safety and health standards along with production.

Unique Features and Innovative processes adopted by the mine:

- Implementation of Du-pont safety management system, which has reduced LTIFR and fatality to zero in past 5 years.
- Continuous mine environment monitoring system to address the abnormal rise in the gas levels to mitigate these hazards at very initial stage.
- Imparting regular training on different SOP's to the employees.
- Upgraded to 450 cum of auxiliary fan capacity for better face ventilation.
- Risk Mitigation has been done by reduction of exposure to immediate roof using Universal Drill Machine while supporting.
- Proper documentation and display of Emergency Preparedness & Response Plans and Triggered Action Response Plan for tackling with major hazards.
- Safety week and safety competitions are held at fixed interval to motivate the employees towards safety.
- Safety Management plan in place in accordance with DGMS guideline.
- Organizing regular awareness camps such as World Heart Day, World Diabetes Day, No Tobacco Day, etc. to promote health awareness.
- Installed underground belt conveyor for transportation of ROM to Coal Preparation Plant without allowing a single particle of coal dust to disperse in atmosphere on one hand and improving hazardous tub loading on the other.
- System of regular external as well as internal safety audits to keep the system moving smoothly and to rectify any deviations.

- Software based Safety Excellence Management System to monitor & tracking Safety Performance.

Keeping in view the mine's exemplary performance in the area of underground health and safety, it has been awarded with the **Hindustan Zinc Health & Safety Award for the year 2017-2018.**



Celebrating No Tobacco Day



Mock Drill on Use of Fire Hydrant



Celebrating Annual Safety Week



Imparting Training on SOPs



Roof Bolting In Underground



Using LHD/ SDL

JURY SPECIAL HEALTH & SAFETY AWARD

MANGAMPET BARYTES MINE – ANDHRA PRADESH MINERAL DEVELOPMENT CORPORATION LIMITED

Mangampet Barytes Mine of Andhra Pradesh Mineral Development Corporation Limited (APMDC) located in Kadapa district, Andhra Pradesh is single largest deposit of barytes in the world. It has annual capacity of 3 Million tonnes with remaining reserves of 50 Million tonnes. APMDC Barytes is highly regarded and well known for its superior quality and is suitable for use in the global oil well drilling industry as a weighing agent. APMDC is a community focused organization and emphasizes sustainable operations to follow an inclusive model of development.

Unique Features and Innovative processes adopted by the mine:

- **Adoption of Standard Operating procedures:** Well defined SOPs for each and every activity to ensure adherence to highest safety standards, with regular feedback from employees.
- **Technically Advanced machinery:** 100 Tonne Komastu Dumpers with technically advanced Ergonomic & safety features.
- **Mandatory use of PPEs:** Strict norms which mandate the use of PPEs at all times inside the workplace.
- **Mine Safety Plan:** To identify, address and caution the management against potential hazards in a proactive manner and review by the Pit Safety Committee from time to time.
- **Camera Surveillance:** Extensive camera surveillance at mines & corporate office for effective monitoring & vigilance.
- **RFID System:** RFID Tagged various entry and exit points ensures complete monitoring over truck movement from mine entry to stockyards and exit.
- The mine has built in a modern hospital at Mangampet to provide health care services free of cost.
- The mine has also introduced **Mobile medical units** for healthcare penetration into remote tribal communities- more than 20,000 people in 600 villages have been provided treatment.
- APMDC has set up 75 Numbers **RO water purification plants** in the surrounding villages and has alleviated the chronic kidney diseases in the region due to water shortage and contamination.

In view of mine's outstanding efforts in the H&S performance, the mine has been awarded with **Jury Special Health & Safety Award for the year 2017-18.**



Aerial View of the Mine



Use of Splainer in Shovel marching



Well maintained haul road



Installed RO Water plant



Health check-up at AMPDC Hospital



RFID system at entry and exit point

LIST OF PAST WINNERS

FIMI's Golden Jubilee Award for Excellence (one-time award conferred during 50 years of celebration of FIMI)

2015-16 : Bailadila Iron Ore Mine (Bacheli Complex), NMDC Limited, Dantewada (Chhattisgarh)

FIMI's Excellence Award

Bala Gulshan Tandon Excellence Award

- 2004-05 : Noamundi Iron Mines, Tata Steel Limited, West Singhbhum, (Jharkhand)
2005-06 : Bailadila Iron Ore Mine, NMDC Limited, Dantewada, (Chhattisgarh)
2006-07 : Codli Group of Mines, Sesa Goa Limited, Codli, (Goa)
2007-08 : Rampura Agucha Mines, Hindustan Zinc Limited, Bhilwara, (Rajasthan)
2008-09 : Jilling Langalota Iron Ore & Manganese Mine, Essel Mining & Industries Ltd., (Odisha)
2009-10 : No applicant mine was found suitable
2010-11 : Noamundi Iron Mine, Tata Steel Limited, West Singhbhum, (Jharkhand)
2011-12 : RKBA Limestone Mines, Ambuja Cements Limited, Junagarh, (Gujarat)
2012-13 : TRB Iron Ore Mine, Jindal Steel and Power Ltd., Sundargarh, (Odisha)
2013-14 : Paraswani Limestone Mine, UltraTech Cement Ltd., Chhattisgarh
2014-15 : Rajashree Cement Limestone Mine, UltraTech Cement Ltd., Karnataka
2015-16 : Sukinda Chromite Mine, Tata Steel Limited, Jajpur, (Odisha)
2016-17 : Noamundi Iron Ore Mine, Tata Steel Limited, West Singhbhum, (Jharkhand)

FIMI's Environment Awards

Abheraj Baldota Environment Award

- 1990-91 : Century Cement Limestone Mine, Century Cement Ltd., Madhya Pradesh
1991-92 : Noamundi Iron Ore Mine, Tata Steel Ltd., Bihar
1992-93 : Naokari Limestone Mine, Larsen and Toubro Ltd., Maharashtra
1993-94 : Kudremukh Iron Ore Mine, Kudremukh Iron Ore Co. Ltd., Karnataka

- 1994-95 : Pale Iron Ore Mine, Chowgule & Co. Ltd., Goa
1995-96 : Bhadanpur Limestone Mine, Maihar Cement Limited, Bhadanpur, (Madhya Pradesh)
1996-97 : Bailadila Iron Ore Project, Deposit-14/11C, NMDC Limited, Madhya Pradesh
1997-98 : Bailadila Iron Ore Project, Deposit-5, NMDC Limited, Madhya Pradesh
1998-99 : Codli Iron Ore Mine, Sesa Goa Ltd., Goa
1999-00 : Gujarat Ambuja Limestone Mine, Ambuja Cements Limited, Gujarat
2000-01 : Vyasankare Iron Ore Mine, MSPL Ltd., Karnataka
2001-02 : Donimalai Iron Ore Mine, NMDC Limited, Karnataka
2002-03 : Bailadila Iron Ore Project, Deposit-14/11C, NMDC Limited, Madhya Pradesh
2003-04 : Bicholim Mines, Dempo Mining Corp. Pvt. Ltd., Goa
2004-05 : Naubasta Limestone Mine, Jaiprakash Associates Limited, Madhya Pradesh
2005-06 : Century Cement Limestone Mine, Century Cement, Raipur, (Chhattisgarh)
2006-07 : Grasim Limestone Mine, Grasim Cement, Raipur, (Chhattisgarh)
2007-08 : Oraghat Iron Mine, Rungta Sons P. Ltd., Sundergarh, (Orissa)
2008-09 : Wadi Cement Limestone Mine, ACC Limited, Dist. Gulbarga, (Karnataka)
2009-10 : Noamundi Iron Mine, Tata Steel Limited, West Singhbhum, (Jharkhand)
2010-11 : Aditya Limestone Mines, UltraTech Cement Limited, Chittorgarh, (Rajasthan)
2011-12 : Sanquelim Group of Iron Ore Mines, Sesa Goa Limited, Bicholim, (Goa)
2012-13 : No applicant mine was found suitable
2013-14 : Kayad Lead Zinc Underground Mine, Hindustan Zinc Limited, Ajmer, (Rajasthan)
2014-15 : Srikumarmam Mineral Sands Mine, Trimex Sands Private Ltd., Srikakulam, Andhra Pradesh (in the name of Hindustan Zinc Environment Award)
2015-16 : Injepalli Limestone Mine, Kesoram Industries Ltd., Gulbarga, (Karnataka)
2016-17 : Narmada Cement Mine, UltraTech Cement Ltd., Amreli, (Gujarat)

Gem Granites Environment Award

- 1990-91 : No mine found eligible
1991-92 : Boula Chromite Mine, Ferro Alloys Corporation Ltd., Keonjhar (Orissa)
1992-93 : Codli Iron Ore Mine, Sesa Goa Ltd., Codli, Sanguem (Goa)
1993-94 : Rampura - Agucha Mine, Hindustan Zinc Ltd., Udaipur (Rajasthan)

- 1994-95 : Joda West Manganese Mine, Tata Iron and Steel Co. Ltd., Keonjhar (Orissa)
1995-96 : Donimalai Iron Ore Mine, N.M.D.C. Ltd., Dist. Bellary (Karnataka)
1996-97 : Manikgarh Cement Limestone Mines, Manikgarh Cement, Maharashtra
1997-98 : Panchpatmali Bauxite Mine, National Aluminium Co.Ltd., Koraput, (Orissa)
1998-99 : Noamundi Iron Ore Mine, Tata Iron & Steel Co. Ltd., Noamundi, (Bihar)
1999-00 : Kudremukh Iron Ore Company Ltd., Chickmagalur, (Karnataka)
2000-01 : Naubasta Limestone Mine, Jaypee Rewa Cement Ltd., Rewa, (Madhya Pradesh)
2001-02 : Joda East Iron Ore Mine, Tata Iron and Steel Co. Ltd., Orissa
2002-03 : Arasmeta Limestone Mines, Lafarge India Ltd., Chhattisgarh
2003-04 : Durgmanwadi Bauxite Mines, INDAL, Maharashtra
2004-05 : Belkapahar Calcite & Wollastonite Mines, Wolkem Industries Ltd., Rajasthan
2005-06 : Rampura-Agucha Mine, Hindustan Zinc Ltd., Bhilwara, (Rajasthan)
2006-07 : Sukinda Mines (Chromite), Indian Metals & Ferro Alloy Ltd., Jajpur, (Orissa)
2007-08 : Manipat Bauxite Mine, Bharat Aluminum Co. Ltd., Sarguja, (Chhattisgarh)
2008-09 : Devapur Limestone Mines, APMDC Limited, Dist. Adilabad, (Andhra Pradesh)
2009-10 : Zawar Group of Mines, Hindustan Zinc Limited, Udaipur, (Rajasthan)
2010-11 : Century Cement Limestone Mines, Century Textiles & Industries Ltd., Raipur, (Chhattisgarh)
2011-12 : Kheratarla Wollastonite Mine, Wolkem Industries Limited, Sirohi, (Rajasthan)
2012-13 : Panchpatmali Bauxite Mine, NALCO Ltd., Koraput, (Odisha)
2013-14 : Joda East Iron Mine, Tata Steel Limited, Keonjhar (Odisha)
2014-15 : Sukinda Chromite Mine, Tata Steel Limited, Sukinda, (Odisha)
2015-16 : Nawabpet-Talamanchipatnam Limestone Mine, Dalmia Cement (Bharat) Ltd., Kadapa, (Andhra Pradesh)
2016-17 : Morwad Marble Mine, Arora's JK Natural Marbles Limited, Udaipur, Rajasthan

Misirilal Jain Environment Award

- 1990-91 : Navalim Dongor Mine, P.D. Kudchadkar, Goa
1991-92 : Kotah Stone Mine, Associated Stone Industries Ltd., Rajasthan
1992-93 : Jhiroli Magnesite Mine, Almora Magnesite Ltd., Uttar Pradesh
1993-94 : Gumgaon Mine, Manganese Ore (India) Ltd., Maharashtra
1994-95 : Tikuri Road Side Bauxite Mine, ACC, Madhya Pradesh
1995-96 : No mine found eligible

- 1996-97 : Laxmipura Limestone Mine, Associated Stone Industries Ltd., Rajasthan
1997-98 : B.B.H.Mines, Mineral Enterprise Pvt. Ltd., Karnataka
1998-99 : Dongri Buzurg Mine, Manganese Ore (India) Ltd., Maharashtra,
1999-00 : Jilling Langalota Iron & Manganese Mine, EMIL, Orissa
2000-01 : Kashlog Limestone Mine, Gujarat Ambuja Cements Ltd., Himachal Pradesh
2001-02 : Panchpatmali Bauxite Mine, NALCO., Orissa
2002-03 : Tummalapenta Limestone Mine, Larsen & Toubro Ltd., Andhra Pradesh
2003-04 : Basantnagar Limestone Mine, Kesoram Cement, Andhra Pradesh
2004-05 : Kudremukh Iron Ore Mine, Kudremukh Iron Ore Company Ltd., Karnataka
2005-06 : Jajang Iron & Manganese Mines, Rungta Mines Limited, Keonjhar, (Orissa)
2006-07 : Kasia Iron and Dolomite Mines, Essel Mining & Industries Ltd., Keonjhar, (Orissa)
2007-08 : No mine found eligible
2008-09 : Naubasta Limestone Mine, Jaiprakash Associates Ltd., Dist. Rewa, (Madhya Pradesh)
2009-10 : Kovaya Limestone Mine, Ultra Tech Cement Ltd., Amreli, (Gujarat)
2010-11 : Narmada Cement Mines, UltraTech Cement Limited, Amreli, (Gujarat)
2011-12 : Sugala Limestone Mine, Ambuja Cements Limited, Junagarh, (Gujarat)
2012-13 : Injepalli Limestone Mine, Kesoram Industries Ltd., Vasavadatta Cement, Karnataka (in the name of Hindustan Zinc Environment Award)
2013-14 : Naokari Limestone Mine, UltraTech Cement Ltd. (in the name of Hindustan Zinc Environment Award)
2014-15 : Noamundi Iron Mine, Tata Steel Limited, West Singhbhum (Jharkhand)
2015-16 : John Mine, R. Praveen Chandra, Chitradurga, (Karnataka)
2016-17 : Parsa East and Kanta Basan Opencast Coal Mine Project, Adani Enterprises Limited (RVUNL), Sarguja, Chhattisgarh

Subh Karan Sarawagi Environment Award

- 1990-91 : No applicant mine found eligible
1991-92 : No applicant mine found eligible
1992-93 : Adityana Chalk Mine, Shri Arjan Pancha, Gujarat
1993-94 : No mine found eligible
1994-95 : Kathpal Chromite Mine, Ferro Alloys Corpn. Ltd., Orissa
1995-96 : G.F.S.R. Manganese Mine, J.K. Minerals, Madhya Pradesh
1996-97 : Peda Dongor Iron Ore Mine Mrs. Jeevan Raia Porob Bhatigar, Goa

- 1997-98 : No mine found eligible
1998-99 : ACC Galgal Limestone Mine, Associated Cement Cos. Ltd., Himachal Pradesh
1999-00 : Raymond Cement Limestone Mine, Raymond Cement., Madhya Pradesh
2000-01 : Joda West Manganese Mines, Tata Steel Limited, Orissa
2001-02 : Velguem/Surla Iron Ore Mine, V.M. Salgaocar & Bro. Pvt. Ltd., Goa
2002-03 : Ilmenite Mines, Indian Rare Earths Ltd., Tamil Nadu
2003-04 : Madukkarai Limestone Mine, ACC., Tamil Nadu
2004-05 : Jilling Langalota Iron & Mn. Mines, Essel Mining and Industries Ltd., Orissa
2005-06 : Bamebari Manganese Mine, Tata Steel Limited, Keonjhar (Orissa)
2006-07 : Siljora-Kalimati Mn. & Iron Mines, M/s Mangilal Rungta, Keonjhar (Orissa)
2007-08 : No applicant mine found suitable
2008-09 : Pale Iron Ore Mine, Chowgule & Company Pvt. Ltd., North Goa Dist., (Goa)
2009-10 : No applicant mine was found suitable
2010-11 : Vikram Cement Limestone Mines, UltraTech Cement Limited, Neemuch, (Madhya Pradesh)
2011-12 : Rajashree Cement Limestone Mine, UltraTech Cement Limited, Gulbarga, (Karnataka)
2012-13 : No applicant mine found eligible
2013-14 : Maheswari Mineral Laterite Mine, Maheswari Mineral, Hyderabad, (Telangana)
2014-15 : Tummalapenta Limestone Mine, UltraTech Cement Limited, Kurnool (Andhra Pradesh)
2015-16 : Balda Block Iron Mines, Serajuddin & Co. Keonjhar, (Odisha)
2016-17 : Koira Iron Mine, Essel Mining & Industries Limited, Sundargarh, Odisha

Jury Special Environment Award

- 2013-14 : Reddipalayam Limestone Mine, M/s UltraTech Cement Limited, Ariyalur, (Tamil Nadu)

FIMI's Social Awareness Awards

Sita Ram Rungta Social Awareness Award

- 1995-96 : Naokari Limestone Mine, Larsen and Toubro Ltd. Maharashtra
: Zavar Group of Mines, Hindustan Zinc Ltd., Rajasthan
1996-97 : Noamundi Iron Ore Mine, Tata Iron and Steel Co. Ltd., Bihar
: Basantanagar Limestone Mines, Kesoram Cements, Andhra Pradesh

- 1997-98 : Panchpatmali Bauxite Mines, National Aluminium Co. Ltd., Orissa
: Bailadila Deposit-5, National Mineral Development Co. Ltd., Andhra Pradesh
- 1998-99 : Kashlog Limestone Mine, Gujarat Ambuja Ltd., Himanchal Pradesh
: Rajashree Cement Limestone Mine, Rajashree Cements, Karnataka
- 1999-00 : Joda West Manganese Mine, The Tata Iron & Steel Co. Ltd., Orissa
: Bailadila Iron Ore Project, Deposit-14/11 C, NMDC Ltd., Madhya Pradesh
- 2000-01 : Naokari Limestone Mines, Larsen & Toubro Ltd., Maharashtra
: Codli Group of Mines, Sesa Goa Ltd., Goa
- 2001-02 : Mines Division (HINDALCO), Jharkhand, HINDALCO Industries Ltd., Jharkhand
- 2002-03 : Donimalai Iron Ore Mine, NMDC Ltd., Karnataka
- 2003-04 : Jilling Langalota Iron & Manganese Mines, EMIL, Orissa
- 2004-05 : Joda East Iron Mine, Tata Steel Limited Orissa
- 2005-06 : Bailadila Iron Ore, NMDC, Dantewada, (Chhattisgarh)
- 2006-07 : Rajpura Dariba Mines, Hindustan Zinc Limited, Rajsamand (Rajasthan)
- 2007-08 : Kasia Iron & Dolomite Mines, Essel Mining & Industries Limited, Keonjhar, (Orissa)
- 2008-09 : Aditya Limestone Mines, Grasim Industries Limited, Chittorgarh, (Rajasthan)
- 2009-10 : Devapur Limestone Mines, APMDC Limited, Dist. Adilabad, (Andhra Pradesh)
- 2010-11 : Bunder Project, Rio Tinto Exploration India Pvt. Ltd., Chhatarpur, (Madhya Pradesh)
- 2011-12 : Kovaya Limestone Mine, UltraTech Cement Limited, Amreli, (Gujarat)
- 2012-13 : Bodai Daldali Bauxite Mine, BALCO Ltd., Kawardha, (Chhattisgarh)
- 2013-14 : Panchpatmali Bauxite Mine, NALCO Limited, Koraput, (Odisha)
- 2014-15 : Maheswari Mineral Laterite Mine, Maheswari Mineral, Hyderabad, (Telangana)
- 2015-16 : Jamul Cement Works, ACC Limited, Durg, (Chhattisgarh)
- 2016-17 : Bailadila Iron Ore Mine (Kirandul Complex), NMDC Limited, Dantewada (Chhattisgarh)

NMDC Social Awareness Award

- 2001-02 : Century Cement Limestone Mines, Chhattisgarh
- 2002-03 : Maihar Cement Limestone Mines, Maihar Cement, Madhya Pradesh
- 2003-04 : Kudremukh Iron Ore Mine, Kudremukh Iron Ore Comp. Ltd., Karnataka
- 2004-05 : Jajang Iron & Manganese Mines, Rungta Mines Limited, (Orissa)
- 2005-06 : Sukinda Chromite Mine, Tata Steel Limited, Sukinda, Jajpur, (Orissa)
- 2006-07 : No mine found eligible

- 2007-08 : Sanindpur Iron & Bauxite Mines, Rungta Sons (P) Ltd., Sundergarh, (Orissa)
- 2008-09 : Vikram Cement, Grasim Industries Limited, Neemuch, (Madhya Pradesh)
- 2009-10 : No applicant mine was found suitable.
- 2010-11 : Vysanakere Iron Ore Mines, MSPL Limited, Hospet, (Karnataka)
- 2011-12 : No applicant mine was found suitable
- 2012-13 : No applicant mine was found suitable
- 2013-14 : No applicant mine was found suitable
- 2014-15 : Singsar Limestone Mine, Ambuja Cements Limited, Junagadh, (Gujarat)
- 2015-16 : Sindesar Khurd Mine, Hindustan Zinc Limited, Rajsamand, (Rajasthan)
- 2016-17 : RAS II Limestone mine, Ambuja Cement Limited, Pali, Rajasthan

FIMI's Health & Safety Awards

Rio-Tinto Health & Safety Award

- 2011-12 : No applicant mine was found suitable
- 2012-13 : RKBA Limestone Mine, Ambuja Cement Ltd., Gir-Somnath, (Gujarat)
- 2013-14 : Rajashree Limestone Mine, UltraTech Cement Limited, Gulbarga, (Karnataka)
- 2014-15 : Narmada Cement Mine, UltraTech Cement Ltd., Amreli, (Gujarat)
- 2015-16 : Wadi Limestone Mine, ACC Limited, Kalaburgi, (Karnataka)
- 2016-17 : APAK Limestone Mine, Dalmia Cement (Bharat) Limited, Ariyalur (TamilNadu)

Hindustan Zinc Health & Safety Award

- 2014-15 : Sindesar Khurd Mine, Hindustan Zinc Limited, Rajsamand, (Rajasthan) (in the name of Abheraj Baldota H&S Award)
- 2015-16 : Digwadih Colliery, Jharia Division, Tata Steel Limited, Jamadoba, (Jharkhand)
- 2016-17 : Sukinda Mines (Chromite), IMFA Limited, Jajpur (Odisha)

JURY COMMITTEE FOR FIMI AWARDS 2017-18

Chairman

Prof. B.B. Dhar

Former Professor and Head, Dept. of Mining Engg., IIT – BHU
and Former Director – CSIR-CIMFR

Members

Mr. P.K Sarkar

Director General
Directorate General of Mines Safety
Dhanbad, Jharkhand

Mr. Ranjan Sahai

Controller General
Indian Bureau of Mines (IBM)
Nagpur

Mr. Deepak Kumar Sinha

Inspector General (Forests)
Ministry of Environment, Forest &
Climate Change, Government of India

Mr. Surendra Kumar

Director (IA)
Ministry of Environment, Forest & Climate
Change, Government of India

Dr. T. K. Joshi

Advisor on Occupational, Environmental,
Health and Chemical Safety
Ministry of Health & Family Welfare,
Government of India

Mr. A. N. Prasad

Former Inspector General (Forests)
Ministry of Environment, Forest & Climate
Change, Government of India

Dr. Anupam Agnihotri

Director
National Institute of Miners Health
JNARDDC Campus

Mr. N. N. Gautam

Former Advisor
Ministry of Coal

Mr. R. N. Bhargava

Chairman-cum-Managing Director
Ecomen Laboratories Pvt. Ltd.

Member Secretary

Mr. B. K. Bhatia

CEO, Sustainable Mining Initiative



FIMI AWARD SCHEME 2018– 19

**FIMI's EXCELLENCE, SUSTAINABILITY,
ENVIRONMENT, HEALTH & SAFETY
AND SOCIAL AWARENESS AWARDS**

CATEGORY OF AWARDS

I. FIMI EXCELLENCE AWARD – 1 Award

i. **Bala Gulshan Tandon Excellence Award**

This award was instituted in 2004-05 by Shri. G. L. Tandon, the country's first mining engineer to have been conferred the prestigious Padma Bhushan Award, in memory of his wife Smt. Bala Gulshan Tandon. The award is designed to recognize excellence in the overall performance – economic, social, environmental and health & safety - of the applicant mine. In the overall scheme of assessment, dimensions which are germane to excellence such as commitment, self-evaluation, transparency, governance etc. are also given due and significant importance.

Eligibility: Any mines fulfilling following conditions will be eligible to apply:

- which have not won “FIMI’s Excellence Award” in last three years (i.e. since 2015-16)
- no fatalities in last three years (i.e. since 2016-17)
- should have overall good health conditions of mine workers
- should not have any report of worker suffering from notified disease

II. FIMI SUSTAINABILITY AWARD – 1 Award

i. **Tata Steel Mining Sustainability Award**

The award was instituted in 2017-18 to recognize excellence in biodiversity conservation and sustainability performance of mines. In the overall scheme of assessment, aspects such as business approach towards sustainability, integration of biodiversity with mining, risk assessment, etc. are also given due and significant importance.

Eligibility: Any mines fulfilling following conditions will be eligible to apply:

- which have not won “FIMI’s Excellence Award” in last three years (i.e. since 2015-16)
- which have not won “FIMI’s Sustainability Award” in the last year (i.e. 2017-18)
- no fatalities in last three years (i.e. since 2016-17)

- should have overall good health conditions of mine workers
- should not have any report of worker suffering from notified disease

III. FIMI ENVIRONMENT AWARDS – 4 Awards

- Subh Karan Sarawagi Environment Award**
- Abheraj Baldota Environment Award**
- Misrilall Jain Environment Award**
- Gem Granites Environment Award**

Mining has a direct implication on the natural environment. Environmental compliance and management therefore play a prominent role in mining activity. In order to encourage mineral conservation, preservation of bio-diversity and maintain ecological balance around mining activity all over the country, FIMI has instituted four Environment Awards. These awards are designed to recognize the mines which have made significant and exemplary efforts towards environmental conservation and management in mines.

Eligibility: Any mines fulfilling following conditions will be eligible to apply:

- which have not won “FIMI’s Excellence Award” in last three years (i.e. since 2015-16)
- which have not won any of the “FIMI’s Environment Award” in last three years (i.e. since 2015-16)
- no fatalities in last three years (i.e. since 2016-17)
- should have overall good health conditions of mine workers
- should not have any report of worker suffering from notified disease

IV. FIMI SOCIAL AWARENESS AWARDS – 2 Awards

- Sita Ram Rungta Social Awareness Award**
- NMDC Social Awareness Award**

FIMI believes that mere propagation of conventional corporate social responsibility is more like following others. Obtaining social license to operate is a goal that requires leadership. It is a matter of not just following best practices but of innovating to best practices. After all, brand reputation and creation of stable and conducive social environment are needs not only for trade and investment but for better standard and quality of life of all the stakeholders, specially the community around. FIMI, therefore, instituted two Social Awareness Awards to encourage the leaders to forge ahead and pull up the followers to do better. These two awards are designed to recognize the mines adjudged to have best contributed to the general upliftment and well-being of their various stakeholders while addressing broader sustainability concern.

Eligibility: Any mines fulfilling following conditions will be eligible to apply:

- which have not won “FIMI’s Excellence Award” in last three years (i.e. since 2015-16)
- which have not won “FIMI’s Social Awareness Award” in last three years (i.e. since 2015-16)
- no fatalities in last three years (i.e. since 2016-17)

V. FIMI HEALTH & SAFETY AWARDS – 2 Awards

i. Rio Tinto Health & Safety Award

ii. Hindustan Zinc Health & Safety Award

Health & safety of workers engaged in mining activities and communities around mines has been getting increasing attention of societies and stakeholders. To specifically attract attention and focused efforts of mining industry towards this important area, FIMI has introduced these Awards to recognize good efforts and initiatives made by the mining industry in taking care of health & safety of their employees and to inspire others to do the same. The ultimate objective of these Awards is to create awareness and implement strategies for improving occupational health & safety management standards so as to focus on development, management and awareness of occupational health & safety by minimizing adverse hazards and risks.

Eligibility: Any mines fulfilling following conditions will be eligible to apply:

- which have not won “FIMI’s Excellence Award” in last three years (i.e. since 2015-16)

- which have not won “FIMI’s Health & Safety Award” in last three years (i.e. since 2015-16)
- with no fatalities in last three years (i.e. since 2016-17)
- should have overall good health conditions of mine workers
- should not have any report of worker suffering from notified disease

General Conditions for all the Awards

- **Any mine with major compliance issues and/or having had fatal accidents within the last three years (i.e. since 2016-17) is not eligible for any of the Awards.**
- **Exploration projects and Mines under development will not be considered for these awards.**

SUMMARY

Category	Award
I. Excellence Award	Bala Gulshan Tandon Excellence Award
II. Sustainability Award	Tata Steel Mining Sustainability Award
III. Environment Awards	Subh Karan Sarawagi Environment Award
	Abheraj Baldota Environment Award
	Misrilall Jain Environment Award
	Gem Granites Environment award
IV. Social Awareness Awards	Sita Ram Rungta Social Awareness Award
	NMDC Social Awareness Award
V. Health & Safety Awards	Rio Tinto Health & Safety Award
	Hindustan Zinc Health & Safety award

Last date for submission of Award Applications is 31-March-2019 (Please note, this date will not be extended)

ASSESSMENT PROCESS

The entire scheme of FIMI Awards has been designed to eliminate, to the extent possible, any subjectivity that might creep into the assessment process. The matter of choosing eventual award winners is the exclusive domain of the Jury.

To assist the Jury Committee Members, desktop assessment of the duly filled in applications are evaluated by independent assessors through an in-house scoring system.

The overarching filter relates to compliance with all the applicable laws and regulations. Non-compliant applicant mines are not considered for any award. Similarly, if any fatal accident has taken place in a mine within the assessment period (last 3 years i.e. 2016-17, 2017-18 & 2018-19) it will be considered ineligible.

Evaluation/Assessment of application form is restricted to the performance parameter for the category of awards for which applicant has applied. However, compliance to various laws, listed in the application document, is mandatory for everyone, irrespective of the category of award one is applying for.

USB/CD/DVD containing photographs and video clips relevant to the Award and showing important features of the mine will also be used as supporting evidences of your answers.

The aggregated scores by the independent assessors are then averaged and normalized through a consensus meeting.

Separate lists of applicant mine for each category of award i.e. Excellence; Sustainability; Environment; Social Awareness and Health & Safety Awards of applicant mines are prepared in the descending order of their scores, and then presented to the Jury Members to decide the cut offs for short-listing the mines.

The shortlisted mines for all the categories of awards other than Excellence Award and Sustainability Award category will be required to make presentation before the Jury committee for selecting the final awardees. In case of Excellence Award and Sustainability Award, site assessment will be carried out for shortlisted mines, while in other categories of awards the site visit will be undertaken only, if so desired by the Jury.

Scores, with supportive evidences and justifications in respect of all the shortlisted applicants, shall be presented to the Jury for selecting the Award Winners.

GUIDELINES AND APPLICATION FORMAT

I. General Guidelines

1. The application document is divided into 5 sections:

Section No.	Section Name
Section A	General Information and Statutory Compliance
Section B	Economic Performance
Section C	Biodiversity & Sustainability Performance
Section D	Environment Performance
Section E	Social Performance
Section F	Health & Safety Performance

2. Guidelines for sections to be filled for different awards:

Award	Sections to be filled
Excellence Award	Section A,B,D, E and F
Sustainability Award	Section A and C
Environment Award	Section A and D
Social Awareness Award	Section A and E
Health and Safety Award	Section A and F

3. Application form is attached at the end of this booklet; it can also be downloaded from our website: www.fedmin.com (under '[FIMI's Award Scheme](#)' heading).
4. All the questions/points in the application document, for respective awards, are required to be filled. Provide quantitative answer / result wherever possible with relevant photographs, wherever possible. If any document (approval) attached is in any other language (English & Hindi), a translation should be provided.
5. The application should be accompanied by a USB/CD/DVD containing photographs and video clips relevant to the Award and showing important features of the mine.
6. Copies of approvals / clearances / permission / violation / show-cause notices must be submitted wherever required.
7. The shortlisted mines for all the categories of awards other than Excellence Award and Sustainability Award category will be required to make presentation before the Jury committee for selecting the final awardees. In

case of Excellence Award and Sustainability Award, site assessment will be carried out for shortlisted mines, while in other categories of awards the site visit will be undertaken only, if so desired by the Jury.

8. All the information and documentation provided by the applicants shall be kept strictly confidential and shall be used only for the purpose of selecting Award Winners. The best practices adopted by the mine will be showcased in the larger interest of the industry in the FIMI's News Bulletin, only after written prior permission of the competent person of the mine.
9. Applications, complete in all aspects, should be submitted in spiral bound form (avoid loosely threaded compilation of document) in **Duplicate** (two copies) along with required supporting documents and should reach the Federation of Indian Mineral Industries (FIMI) Office, addressed to the Secretary General – FIMI, FIMI House, B-311, Okhla Industrial Area, Phase-I, New Delhi-110 020, latest by 31st March, 2019, along with payment, as mentioned below, towards 'Application fee for FIMI Awards'.

Category		For FIMI Members	For Non-Members
For Award of Excellence or Award of Sustainability		Rs. 40,000	Rs.50,000
For All Other Awards	For Mines ≥ 50ha	Rs. 30,000	Rs. 40,000
	For Mines < 50ha and / or Minor Mineral Mines	Rs. 20,000	Rs. 30,000

10. The mines shortlisted by the Jury for on-site assessment shall have to bear actual travel, boarding, lodging and incidental expenses of the assessors.
11. The payment shall preferably be made by RTGS/NEFT (details below):
 - Bank Name : State Bank of India
 - Bank Account Name : Federation of Indian Mineral Industries
 - Bank Account No. : 30049272942
 - Bank Type : C/A Account
 - RTGS/NEFT : SBIN 000 4298
 - Bank Address : Commercial Branch, Nehru Place,
New Delhi- 110 019

Or

By Demand Draft in favour of '**Federation of Indian Mineral Industries**', payable at **New Delhi**, to be sent at:

*Federation of Industrial Mineral Industries
FIMI House,
B-311, Okhla Industrial Area, Phase – I
New Delhi – 110 020
Tel.: (011) – 26814595/97*

Kindly note our **GST No. 07AAATF0348Q1ZG**

12. In case a mine intends to apply for more than one award, in addition to the General Sections it should fill in the relevant section for the particular Award being applied for. It may be noted that separate fee, as applicable, has to be deposited for the number of awards being applied.

Schedule for FIMI's Award Scheme, 2018-19

1. Last date of submission of Award Application -- 31st March, 2019*
2. Award Assessment Process – April to May, 2019
3. Communication to Applicant mines -- June, 2019
4. Award Ceremony at the time of FIMI AGM -- July/August, 2019

*Note: Deadline will not be extended further in any circumstances.

II. Section-wise Guidelines

1. Section – A : General Information and Statutory Compliances

Part I – General Information

- a. Relates to general information about the applicant's organization and the mine site for which the application is specifically made.
- b. Specify clearly at S.No.1 of this section as to which Award the application has been submitted for.
- c. Although no marks have been allotted to any of the questions in this section, it is used by the examiners and Judges in application review, including site visit, to understand your organization's environment, relationships, influence and challenges, as presented in the questions and organizational profile note.

Part II – Statutory Compliances

- a. Relates to compliance with all the applicable laws, Acts and Regulatory requirements. The applicant may add further information in respect of compliance with other relevant Acts or Regulatory requirements for which no direct questions have been asked.
- b. Applicants are requested to fill this Section carefully and factually with details and documentary support wherever required.
- c. If you think that a particular question/point is not applicable to your mine, write "Not Applicable" and clearly mention why.
- d. In states where SPCBs grant Consolidated Consents and Authorization (CCA), applicants need not submit separate details under relevant separate headings.

2. Sections – B, C, D, E, F : Economic, Biodiversity & Sustainability, Environment, Social, Health & Safety Performance

- a. The five sections B, C, D, E & F : comprise of questions, whose answers shall be assessed and evaluated as objectively as possible through a rigorous scoring system for short-listing the potential Award winners.

- b. In scoring system, each section shall carry a specific weightage, as indicated against the section.
- c. Applicants must answer all the questions in the applicable section (s). If any of the questions is not applicable to the respective applicant, please mention the reason for it.
- d. Answer to each question in these sections should be as comprehensive as possible and should be furnished with supporting evidence, and outcome. Additional sheets may be used, if required.
- e. Wherever years are not specified, information is asked for only last three financial/working years (i.e. 2015 - 16, 2016 - 17 & 2017 - 18). Applicants are free to provide information beyond past 3 years if considered relevant and important.

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FIMI AWARDS 2018 -19

APPLICATION FORMAT

SECTION-A: GENERAL INFORMATION AND STATUTORY COMPLAINTS

PART – I: GENERAL INFORMATION

1. Name of the Award applied for :
2. Name of lease holder :
3. Name of Mine :
4. M.L. No. :
5. Mineral(s) mined :
6. Location of mine :
7. Date of commencement of mining :
8. Lease area (details to be given in the following format)

Type of Land	Area under Lease (Hectares)	Area Broken Open or Under Working (Hectares)
Forest land		
Non-forest land		
Total Area		

9. Salient features of mine including its geology etc. (not more than 1000 words)
10. Method of working (Tick) : Opencast / Underground
11. a) Type of operations (Tick) : Mechanized / Semi-mechanized / Manual
b) List the equipment & machinery used (with broad specifications)
c) Any innovative practices need to be highlighted with relevant photographs

12. Production (details to be given mineral-wise in the following format)

Year	Mine Capacity (Tonnes Per Year)	Production (Tonnes)	Remarks
2015-16			
2016-17			
2017-18			

13. Total manpower in Operations (as on date):

Year	Direct	Contract	Total
As on date			

14. Details of Fatal Injury, if any:

Year	Fatal injury in the mine	If Yes, provide details thereof	No. of cases of notified diseases (Please provide the details thereof)
2016-17	Yes/ No		
2017-18	Yes/No		
2018-19 till date	Yes/No		

15. Star-Rating awarded in the last reporting year, if any:

16. Any Accredited Certification of mine for (please tick whichever is appropriate):

- a) Quality Management System (ISO 9001) : Yes / No
- b) Environmental Management System (ISO 14001) : Yes / No
- c) Occupational Health & Safety Management System (ISO 18001) : Yes / No
- d) Social Accountability International (SA 8000) : Yes / No
- e) Energy Audit undertaken by the mine : Yes / No
- f) Member of Sustainable Mining Initiative : Yes / No
- g) Any other certification lessee wishes to furnish

17. Details of awards received earlier, including any FIMI awards: (Name & Year of Award, Award conferred by)

18. Details (Name, designation, address, e-mail, mobile number) of
- a) Owner/ Agent :
- b) Mines Manager :
- c) Contact person :
19. Any other relevant information the applicant wishes to furnish.

Part – II : STATUTORY COMPLIANCES

Please tick (√) or fill, whichever is applicable.

1	Payment of all applicable mandatory taxes, royalties, DMF and NMET contribution, GST on royalty, levies, cess, fees, etc., to both State and Central Governments are upto date	Yes / No
2	MMDR Act 1957; MCR 2016 and MCDR 2017 a) Mining lease valid upto b) Validity period of latest Mining Plan / Scheme of Mining approved by IBM	Date Date
3	Mines Act 1952, Mines Rules 1955, MMR 1961 and MVTR 1966 a) Obtained Permission for deep hole blasting & Use of HEMM under regulation 106(2)? b) Obtained Common Boundary Working Permission?	Yes / No/ NA Yes / No/ NA
4	Forest Clearance under Forest (Conservation) Act, 1980	Obtained / Under process/ NA
5	Environment (Protection) Act, 1986 a) Environment Clearance under EIA Notification 1994/2006 b) Permission under CRZ Notification, 1991	Obtained / Under process / NA Obtained / Under process / NA
6	Has there been any implication of the following Acts? a) The Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act 2006 b) The Provisions of the Panchayat (Extension to the Scheduled Areas) Act 1996 c) Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013 (Land Acquisition Act, 2013) (If Yes, provide details)	Yes / No Yes / No Yes / No
7	Authorization received under Hazardous and Other Wastes	Obtained /

	(Management and Transboundary Movement) Rules, 2016?	Under process/ NA
8	Clearance under Wild Life (Protection) Act, 1972	Obtained / Under process/ NA
9	Consent To Operate (CTO) under Air (Prevention & Control of Pollution) Act, 1981 & Water (Prevention & Control of Pollution) Act, 1974	Obtained / Under process/ NA
10	Water Cess Act, 1977 a) Mention the source(s) of water to the mine. b) Obtained permission to draw water from source under Water Cess Act, 1977?	----- Yes / No
11	Obtained permission and licenses under Explosive Act, 1951 for Magazine, Explosive transport vehicles and manufacture of site mix explosives?	Yes / No / NA
12	Implementation of Rehabilitation and Resettlement policy of the State Government, if applicable.	Yes / No / NA
13	Has the mine or company been issued any Show-Cause / Violation Notices? (If Yes, provide details along with compliance actions taken)	Yes / No
14	Has there been any instance of any penal provisions being invoked against the mine under any of the above Acts/Rules in last 3 years? If Yes, provide details.	Yes / No

UNDERTAKING:

I state that

I have reviewed the information provided by my organization in this application and confirm this is to be correct and update.

We understand that this application will be reviewed by a group of assessors. Should our mine be selected for a site visit, we agree to host the site visit and to facilitate an open and unbiased examination.

I agree, on behalf of my organization, to abide by the conditions mentioned in the guidelines and accept that the decisions of the Jury will be final.

I certify that the mine/organization complies to all administrative, statutory and legal provisions (terms and conditions) attached to lease deed, various grants /clearances/approvals/consents etc.

Date: ___/___/___

(Authorized Signatory)

SECTION-B: ECONOMIC PERFORMANCE (1000 Points)

1. BUSINESS DEVELOPMENT AND PRODUCTIVITY (200 points)

a) Furnish the following data regarding mine production:

Year	Mine capacity (Tonnes per year)	Production (Tonnes)	Turnover (Rs.)
2015-16			
2016-17			
2017-18			

- b) Outline the major improvements in productivity and profitability of the mine and substantiate with statistics, tables, charts, graphs and any other methods
- c) Outline the value addition to the extracted ore/minerals by the way of adopting Crushing/ Screening/ Beneficiation/ Washing/ Downstream industry etc., and provide the economic benefit of the same.

2. SYSTEMATIC EXPLORATION (100 points)

Outline the geology, exploration carried, exploration planned, updated reserves as per UNFC, software used for resource estimation, future exploration programmes, threshold and cutoff grade for resource estimation and any other related information and any significant outcomes in the past 3 years.

3. MINE PLANNING AND MONITORING MINE OPERATIONS (100 points)

Outline the effective mine planning (mention if any software is used and its implementation achieved and its implementation to achieve reduced stripping ratio), optimum recovery of ore and efforts to achieve highest safety and health indicators. Innovations in reducing mining costs can also be illustrated. Mention about the monitoring system such as GPS/satellite/ERP (Enterprise Resource Planning) being used at centralized office (For example Drones, etc.,)

4. MACHINERY UTILISATION AND MAINTENANCE (100 points)

Outline the uniqueness of the mine adopted in deploying special machineries for special purpose, optimal use of machinery (substantiated findings with statistics like machine wise annual availability, its productivity and energy efficiency for the past 3 years), machinery maintenance etc., and Highlight benchmarks especially availability, utilization, energy efficiency and productivity in comparison with industry peer specifications.

5. RESEARCH & DEVELOPMENT AND ASSOCIATED ACTIVITIES (100 points)

Outline the R&D facilities in respect of

- Use of sub-grade minerals and waste materials generated in the mine
- Productivity improvement (minimize the cost in-terms of change in machinery, change in capacity of machinery, machine-tipper combination etc, R&D on trial basis can also be mentioned)
- Reducing the environmental footprint of the mine (Substantiate with relevant photographs, wherever required)
- Any commercial utilization of associated minerals in the mine.
- Expenditures made for R&D over past 3 years together with significant outcomes of R&D.

6. BUSINESS GROWTH AND RISK MANAGEMENT (100 points)

Outline how company is developing its strategy for its business growth (by adding new projects), business diversification (investing in diversified mining projects or diversified businesses), managing risks (variations in threshold limits, variations in gangue minerals contents, variation in demand & supply, variation in freight rates and mode of transport), other business related risks, sustainability and its future planning.

7. EFFORTS TOWARDS ZERO WASTE MANGEMENT (100 points)

Outline how company is utilizing waste generated in the mine for market, sale, other use of commercial benefit and alternate use. Elaborate how it is exploring opportunities to utilize wastes generated in the mine and pursuing economic activities such as developing market for overburden, use of tailings, recycling of oil, etc. Also outline the activities to promote recycling and reuse in the mine. (Please elaborate the reduction of waste at source, recycling & reuse of waste).

8. ENERGY MANAGEMENT (100 points)

Outline how company is targeting energy efficiency over past three years by way of increase in fuel efficiency (by reducing fuel consumption per tonne of production and also compare the fuel consumption of each and every machine for the past 3 year), use of renewable energy wherever feasible and possible, reducing the energy requirements by innovative methods and process re-engineering and any other means.

9. STAKEHOLDERS ENGAGEMENT AND PUBLIC REPORTING SYSTEMS (100 points)

Outline the practice and process in place to identify, prioritize and engage key stakeholders to address concerns pertaining to sustained economic well-being of the mine, Method of engagement with stakeholders and any related information. Focus on the business risk related issues to stakeholders especially investors, employees, suppliers, government agencies and community likely to be impacted. Also outline if there are any public reporting systems at the mine.

SECTION-C: BIODIVERSITY & SUSTAINABILITY PERFORMANCE (1000 points)

A. BIODIVERSITY ASPECTS (400 points)

1. Biodiversity Management Policy (50 Points)

- a) Is there a commitment in terms of Policy/Directives from company's senior management on Biodiversity Conservation and management? If yes, please highlight its key features.
- b) Are roles and responsibilities clearly defined to take policy commitment to the ground level?
- c) Is there any commitment to No Net Loss or Net Positive Impact? Provide the details.
- d) Provide details on the formulation of Biodiversity Management Plans and Wildlife conservation plan (if applicable) for the area.

2. Risk Assessment Procedure (100 Points)

- a) Provide brief information about baseline data regarding biodiversity (information regarding flora and fauna species prior to the project, various ecosystem services)
- b) Has the mine assessed the risks to biodiversity due to mining in the area? If yes, provide details of risks identified along with remediation measures.
- c) Is there any species of special conservation status (WPA Schedule II and IUCN RED list) found in and around area of operation of mining company? If yes, please list the species.
- d) Is/are mining company's current or future operations falling in areas whose development may result in loss of critical habitats, World Heritage Sites or Protected Areas?
- e) Is there any assessment done for addressing social and environmental impacts of mining on natural resources dependent livelihoods, wherever applicable?

3. Integration of Biodiversity with Mining (100 Points)

- a) Describe how the mine monitors its footprint on biodiversity and reviews its efforts to conserve biodiversity? Does the mine conduct any independent review by experts?
- b) Mention the annual budget earmarked for implementation of the biodiversity conservation management plan for the last 3 years.

Year	Budget Allocated (in Rs. Lacs)	Utilization (in Rs. Lacs)	Percentage
2016-17			
2017-18			
2018-19 till date			

- c) Does the mine/company have a public reporting system for its biodiversity conservation efforts. If yes, please provide details thereof.

4. Implementation of Biodiversity Conservation Measures (100 Points)

- Highlight best practices adopted by the mine for conserving biodiversity in and around the lease area.
- Also mention any specific interventions made by the mine to prevent damage to biodiversity in the region. (E.g. – fire-fighting system to tackle forest-fires, awareness programmes, etc.)
- What are the measures adopted by the mine to protect endangered/threatened species (flora and fauna), wetlands, etc.?
- Has the mine allowed strips/land of native vegetation within mining lease as biodiversity hotspots, and reconstructed fauna habitats using rocks, logs etc. from areas being cleared for mining? If yes, please furnish the details.

5. Biodiversity Awareness Programme and Stakeholder Engagement (50 Points)

Describe efforts made by the mine/company to engage with stakeholders (communities, Government bodies, NGOs, knowledge partners, etc.) to promote awareness towards biodiversity conservation. It may include efforts through hosting events, programmes for the host community, school children, organizing camps, part of the training curriculum, etc.

B. SUSTAINABILITY ASPECTS (600 points)

6. Business approach towards Sustainability (150 Points)

Please provide information on the following:

- Formation of corporate sustainability team and sustainability vision, mission, strategy and policy, etc. of the organization.
- Identification of sustainability related risks and targets (if any) for the mine.

- Guidelines followed for Sustainability reporting of mine – Is it through Integrated reporting or as a separate sustainability report or as a separate section in the Annual Report or only being publishing on website.
- Company's participation/involvement in national and international forums.
- Engagement with local communities to understand the mines' actual and potential positive and negative impacts.
- Engagement with suppliers on sustainability issues/ whether due diligence done while selecting the vendors/ whether bidding is made accessible to local vendors.
- Compliance to SA8000 standard in any form.

7. Environmental Performance (150 Points)

- a) Briefly outline the environmental management system at the mine (policy, organizational structure for environment management, mechanism and implementation, etc.)
- b) Briefly outline how the mine monitors and manages its impacts on each of the following:
- i. Air Quality
 - ii. Surface Water – Run-off and Effluent discharge, etc.
 - iii. Ground Water – NOC from CGWA/ CGWB, groundwater recharge measures, rainwater harvesting, etc.
 - iv. Noise & Vibration
 - v. Dump Management – dump design, stabilization, reclamation, avoidance of slope failure, etc.
 - vi. Disposal of Hazardous wastes
 - vii. Afforestation – plantation methods, use of native species, survival rate, etc.
- c) Please provide information on the following:
- i. Use of digital/ innovative technology for gainful and scientific extraction/ beneficiation of mineral resources.
 - ii. Initiatives taken for reducing water and energy consumption in the mines and associated plants.
 - iii. Outline the steps undertaken by the mine for progressive reclamation of the dumps.
 - iv. Management of topsoil, subgrade minerals, tailings, slimes or ash (whichever is applicable)–
 - a. Generation, storage and utilization
 - b. % area of leasehold used for handling these materials
 - v. Details of mined-out area reclaimed and stabilized (i.e. converted into final land use as mentioned in approved Mine Plan).
 - vi. Measuring of direct and indirect GHG emissions, if carried out.

8. Social Performance (150 Points)

- a) Briefly outline the CSR management system at the mine (policy, organizational structure for CSR, mechanism, identification of community needs, implementation, etc.).
- b) List out the major initiatives by the mine that demonstrates its commitment towards the local community
 - Recognizing and respecting culture & heritage of local communities.
 - Supporting non-mining livelihood options
 - Upgradation of local skill base.
- c) List out the major initiatives by the mine that demonstrates its commitment towards its workforce:
 - Motivating and empowering employees.
 - Employee participation in innovation, enhancing productivity, implementation of policies, etc.
 - Skill development of both employees and contract workers
 - Grievance redressal mechanism
 - Conduct of employee satisfaction surveys
- d) What are the plans/efforts by the mine to ensure socio-economic sustenance of the host community after closure of mining in the area?

9. Health & Safety Performance (150 Points)

- a) Briefly outline the Health & Safety management system at the mine (policy, organizational structure, mechanism, implementation, etc.).
- b) List the H&S indicators monitored by the mine and provide their details for the last three years (2015-16 to 2017-18 till date).
- c) Outline the initiatives by the mine to
 - Identify H&S risks and hazards
 - Improve H&S culture at the mine
 - Impart H&S related training to employees and contract workers
- d) Outline the mechanism at the mine for investigating accidents/unsafe incidents and preventing similar incidents from happening in future.
- e) Briefly mention about the emergency response plan at the mine site

SECTION-D: ENVIRONMENTAL PERFORMANCE (1000 Points)

1. ENVIRONMENT MANAGEMENT SYSTEM (100 points)

- a) Briefly outline the Environmental Management System (Policy, organizational structure for environmental management, mechanism and implementation of the system)
- b) Provide approximate budgeted and actual expenditure on environmental management over the last 3 years.

2. TOP SOIL MANAGEMENT (100 points)

- a) Mention how the top soil is collected, stored and utilized at the mine. Outline the efforts made to conserve the top soil.
- b) Provide the details as follows:

Year	Quantity Generated (in metric tonnes)	Quantity Stored (in metric tonnes)	Quantity Utilized (in metric tonnes)
2015-16			
2016-17			
2017-18			

3. AIR QUALITY MANAGEMENT (100 points)

- a) Briefly mention how air quality is managed at the mine and the systems in place? Outline the steps/measures to prevent and mitigate air pollution w.r.t. the following:
 - Drilling and Blasting
 - Haulage/Transportation of ore
 - Beneficiation Process
 - Storage of minerals / waste material
 - Any innovative methods (Highlight with relevant photographs)
- b) Briefly mention how air quality is monitored at the mine? Provide details of Environmental monitoring station if established. Provide factual data

regarding Ambient Air Quality monitoring for the last 3 years (Mention the details of PM10, PM2.5, SOx and NOx parameters)

4. WATER MANAGEMENT (100 points)

- a) Provide factual data regarding water consumption at the mine for the last 3 years.

Year	Total Consumption (cu.m.)	Specific consumption (cu.m. per tonne of ore)	Quantity recycled (cu.m.)	Source of Water
2015-16				
2016-17				
2017-18				

- b) Have the mine operations intersected or likely to intersect ground water table? If yes, please provide management system for the same.
- c) How mine drainage system is managed to control the runoff and the methods adopted for controlling water pollution in the mine. (Provide details of construction of garland drains, gully plug, check/silt dam, settling ponds and mode of final discharge, details of treatment facility provided, dimensions wherever applicable)
- d) Briefly mention how water quality is monitored at the mine and the frequency of surveys? (Provide latest report of inlet and outlet parameters)
- e) Outline if any efforts are made for rain water harvesting, if yes, substantiate with the details and results achieved by the rainwater harvesting structures.

5. NOISE AND VIBRATION CONTROL (100 points)

- a) NOISE: Mention the source of Noise generation, frequency of Noise Surveys, availability of monitoring equipment; and steps taken to control noise.

- b) **VIBRATION:** Mention the source of Vibration generation, frequency of Vibration Surveys, availability of monitoring equipment; and steps taken to minimize the adverse impacts of ground vibration and air blast.

6. WASTE MANAGEMENT (100 points)

- a) Outline the system of waste/OB dumping at the mine.
- b) Provide the detailed dump configuration (include no. of terraces, bench slope, area covered, etc).
- c) Highlight the steps taken for stabilization of static dumps (Provide details of techniques used such as Geo-coir mat, Vetiver, Miyawaki, etc)
- d) Highlight the steps taken to avoid slope failure, rolling of boulders and runoff washing from edge of dumps in active dumps (inlay structure have been maintained or not)
- e) Details of stabilization of waste/OB dumps to be given in the following format:

Total Area occupied by Dump(s) (Hectares)	Area Stabilized (Hectares)	Percentage

- f) Briefly mention how the mine management manages and disposes its hazardous wastes.

7. MANAGEMENT OF SUBGRADE MINERALS (100 points)

- a) **STACKING:** Outline how subgrade mineral is stacked in the mine.
- b) Indicate the percentage of subgrade mineral in the mine, quantities of subgrade mineral generated and stored.
- c) **UTILIZATION:** List the efforts made, including R&D, for utilization of subgrade minerals.

8. RECLAMATION AND REHABILITATION OF MINED AREAS (100 points)

- a) Outline the reclamation and rehabilitation procedure adopted - The method of final mine closure, its planning, its implementation, area already reclaimed with different methods, effectiveness of reclamation etc,
- b) In case of reclamation & rehabilitation by afforestation also mention no of trees planted, type of maintenance and manure, survival rate with particular reference to species planted, and special mention of local species that existed prior to mining.
- c) What indicators have been selected to measure the success of rehabilitation and reclamation effort?

9. AFFORESTATION (100 points)

- a) Furnish the details regarding afforestation within ML area for the last 3 years.

Year	Area Afforested (Hectares)	Total saplings planted	Survival Rate (%)	Major species planted
2015-16				
2016-17				
2017-18				

- b) Outline the post-plantation care, future afforestation plans within lease and in surrounding neighborhood including nearby villages, measures for protecting and conservation of biodiversity and wild life.
- c) Mention the use of inoculation techniques to introduce microbe community to improve soil quality either to disintegrate rocks or improve soil fertility or to remove toxic elements or any/all of them, use of invertebrate community to improve soil quality; attract pollinators; 3-tier plantation etc., Efforts for ecological restoration and maintaining biodiversity may be explained.
- d) Mention briefly the steps taken to upgrade general aesthetic beauty in the lease area and surrounding area.

10. ADOPTION OF ENVIRONMENT FRIENDLY TECHNOLOGIES AND AWARENESS GENERATION (100 points)

- a) Highlight the major technologies adopted in last 2 years to prevent and/or control pollution, reduce power and water consumption, utilize wastes and by-products etc.
- b) Has mine management taken any initiatives towards mitigating climate change such as reduction in GHG emissions, promoting the use of renewable energy sources, energy efficiency measures, etc.? If so, please mention briefly.
- c) Outline the activities undertaken by the mine management for spreading environmental awareness among the employees as well as surrounding communities.

SECTION-E: SOCIAL PERFORMANCE (1000 Points)

1. CORPORATE SOCIAL RESPONSIBILITY POLICY (100 points)

- a) Does the company have a formal corporate social responsibility policy (Y/N)
 (If yes, attach a brief note highlighting how the key areas of work are identified, how this policy is being implemented and involvement of the beneficiaries)
- b) Furnish the following data:

Year	Actual expenditure on CSR activities (Rs.)
2015-16	
2016-17	
2017-18	

2. Mention about the CSR intervention areas and planning tools (such as village level micro planning, community meeting, stakeholder survey, stakeholder workshop, inputs from government, etc) (100 points)

3. SERVICES PROVIDED TO SURROUNDING TOWNS / VILLAGES (100 points)

(Note: Activities/services provided for employees should be excluded)

	Services	Work done in (monetary terms)
(a)	town planning and infrastructural development, roads, etc.	
(b)	provision of clean drinking water	

	Services	Work done in (monetary terms)
(c)	Housing	
(d)	transport facilities	
(e)	public health amenities and family planning	
(f)	disease control services	
(g)	Education	
(h)	generation of employment e.g. formation of cooperatives (number of self-employment generated to be indicated separately)	
(i)	training and assistance for animal husbandry, sericulture, pisciculture, improved methods of agriculture, traditional crafts for self-employment, employable skills (artisan training)	
(j)	cooperatives and fair price shops	
(k)	greening of areas outside of leasehold, parks and gardens (survival rate of plantation to be indicated)	
(l)	use of non-conventional energy sources	
(m)	Any other, please mention	

4. EXPLAIN MEASURES TAKEN FOR THE FOLLOWING CSR ACTIVITIES (200 points)

- a) Strengthening Watershed Management
- b) Partnership with the agricultural sector
- c) Assess and upgrade the local skills base
- d) Sustainable livelihood opportunities
- e) Infrastructure development in and around mine areas
- f) Support programs to reduce childhood malnutrition and hunger
- g) Drinking water facilities and Public sanitation
- h) Educational development
- i) Health care facilities
- j) Add anything you wish to furnish

5. Provide socio-economic status of surrounding communities? (100 points)

Provide details before and after CSR intervention (Periodical survey carried out for pre CSR intervention and post CSR intervention to understand its effectiveness) – Especially on issues related to male and female ratio, literacy/illiteracy rate, employment ratio (gender wise), health status and status of underprivileged people (economic/social/other areas)

6. What measures are taken for the improvement of socio-economic status of underprivileged communities? (100 points)

7. EMPOWERING EMPLOYEES (100 points)

a) List the initiatives by the mine management towards building/enhancing skills of employees at various levels (including contract workers).

b) Outline the initiatives to ensure employee's participation in innovation as well as implementation of policies, management of the mine.

8. RESETTLEMENT AND REHABILITATION ENDEAVOURS (100 points)

List all the statutory obligations and specific initiatives by the mine towards resettlement and rehabilitation of displaced population, if any.

(Elaborate on statutory commitments with timeline for implementation, its target and achievements, initiations that are more than statutory obligation, etc.,)

9. CRISIS RESPONSE AND MANAGEMENT (100 points)

Mention about how company is sharing social responsibilities in crisis situations in the region of its operation, state and country especially like earthquake, flood, drought, fire, other natural calamities.

Focus on last three years' responses of the company in terms of monetary/non-monetary forms for crisis. (Please note that Emergency Preparedness Plan of mine need not to be mentioned here and it is related to managing the impact of crisis situations at/in mine level).

SECTION-F: HEALTH & SAFETY PERFORMANCE (1000 Points)

1. H&S MANAGEMENT SYSTEM AND POLICY (100 points)

- a) Does your mine have a formal Occupational Health and Safety policy?
(If yes, attach a brief note highlighting the following:
- key objectives and targets of this policy
 - organizational structure for H&S, and
 - how it is implemented at the mine.

2. H&S PERFORMANCE (100 points)

- a. List the H&S performance indicators (such as TIFR, LTIFR, SI, NMI, etc) used by your mine and briefly describe the rationale for selecting these indicators.
- b. Innovative implementations related to H&S

3. SAFETY MANAGEMENT SYSTEM (100 points)

- a. Outline the Safety Management System (SMS) as recommended by DGMS in respect of –
- Implementation of SMS (DGMS Tech Circular No.13 of 2002)
 - Safety Audit to reduce accidents (DGMS Tech Circular No. 8 of 2009) and
 - Review of SMS (DGMS Tech Circular No. 02 of 2011)
- b. Provide details about Pit Safety Committee and its meetings, Workmen Inspector, 3rd party audit and review of SMS, Emergency Preparedness Plan, etc.

4. H&S STATISTICS AND RESULTS (100 points)

a) Furnish the following:

Employee Health

Year	Total No. of man days worked	Total sickness absence days		Major causes of sickness absence	Corrective/preventive actions taken
		Days	%age of man days absence		
2016-17					
2017-18					
2018-19 till date					

Employee Safety

Year	No. of Fatalities	Total Injury Frequency Rate (TIFR)	Lost Time Injury Frequency Rate (LTIFR)	Severity Index (SI)	Near Miss Incidents (NMI)
2016-17					
2017-18					
2018-19 till date					

- b) For the last 3 years, mention the number and nature of cases of
- Notified diseases u/s 25 of Mines Act
 - Occupational diseases (other than notified diseases)

5. H&S CULTURE (100 points)

- a) Outline the initiatives by the mine management towards creating a safer and healthier working environment. Also mention any specific measures adopted in the last 3 years to address the H&S risks and hazards. Mention about all statutory provisions implementations, additional implementations and innovations adopted.
- b) Is there any mechanism/programs to encourage employees at the mine site for improved H&S culture and alter employee behavior to work safely?

(If so, please provide a brief). This may include competition among employees regarding health & safety knowledge and reward system to employees, contract-workers, etc. (Mention how workplace health is promoted and provide details about counseling programs)

6. H&S FACILITIES (100 points)

- a) Outline the medical related facilities such as training center, first aid center, ambulance facility, etc provided by the mine management
- b) Mention details about safety related facilities such as vocational training center, full time instructor, use of training simulators, etc provided by the mine management

7. H&S RECORDS (100 points)

Provide details in respect of schedules of initial / periodical medical exams of employees including contractors, maintenance of their medical record, periodical health surveillance, training record, refresher training record, return submitted to statutory authorities, records of other training imparted.

8. H&S TRAINING (100 points)

- a) Describe the training as per vocational training rules, 1966 such as initial basic training, job oriented special training and periodical refresher training
- b) Provide details regarding training provided related to job enrichment/enlargement of employees
- c) Mention trainings imparted regarding soft skill development, behavioral change, personal productivity enhancement, healthy practices, etc., for the employees

d) Describe the H&S related training program (type of training, duration, frequency, etc.) for:

- Employees
- New inductees
- Contract-workers and service providers
- Transporters, etc.

9. HAZARD IDENTIFICATION & RISK ASSESSMENT (100 points)

- a) Briefly mention how the mine identifies health hazards and safety risks both within the mine and outside lease area and also activity wise. The ranking of risks on its severity, likeliness to occurrences, its impact on the particular scale.
- b) Briefly mention about mitigating measure of risks, its implementation, analysis of effectiveness of implementation, periodical review and modification if required.

10. ACCIDENTS / NEAR MISS ANALYSIS & MANAGEMENT (100 points)

Outline the methods used for investigating accidents/ incidents, root-cause analysis and incorporating the learnings to avoid future occurrences. Briefly describe the above process followed for a past accident in the mine.
